

# Distribution Photometry Report

Report Number: DP170209/03

Report Date: 19/02/2017

Job Reference: 170209/01

Test Date: 09/02/2017

Client: Decrolux  
2, Rickman Street  
Deloraine,  
Tasmania 7304

Catalog Number: LC4035

Description: IESNA:LM-63-2002  
[TEST] DP170209/03  
[TESTLAB] SJA  
[ISSUE DATE] 2017-02-09  
[MANUFAC] Decrolux  
[LUMCAT] LC4035  
[LUMINAIRE] Wall-washer, up/down light Model KUBUS,  
[MORE] with 2x 3W Philips Luxeon LED 3000 K  
[MORE] with a SELF 350 mA Non-dimmable LED driver  
[OTHER] Test Distance: 15.279m  
[OTHER] Mains (Input) - Voltage: 240.3 V, Current: 0.0476 A, Power: 5.671 W  
[OTHER] Room Temperature: 24.2°C

Filename: DP17020903UD LC4035 Final.rep

Comments: Tested according to Standard CIE S025/E:2015

Total Uncertainties of Measurement:  
(As estimated at the 95% confidence interval, k = 2)

Luminous Intensity	±3.5%
Angle	±0.1°
Voltage	±0.05%
Current	±0.05%

Test Officer: SE Jenkins 27/02/2017  
S.E.Jenkins

Approved Signatory: SE Jenkins 27/02/2017  
S.E.Jenkins

Accreditation Number 15508.

Accredited for compliance to ISO/IEC 17025.



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Factory Two, 21-29 Railway Ave  
Huntingdale, Vic, 3166, AUSTRALIA  
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## Luminaire Details

### Luminaire Test Details:

Photometry Type:	Type C/Gamma
Number of Lamps:	1
Lumens per Lamp:	266.80 lm
Power:	5.671 W
Luminous Efficacy:	47.0 lm/W
Max. Intensity:	68.0 cd at Azi = 225.0°, Ele = 172.0°

### Beam Width:

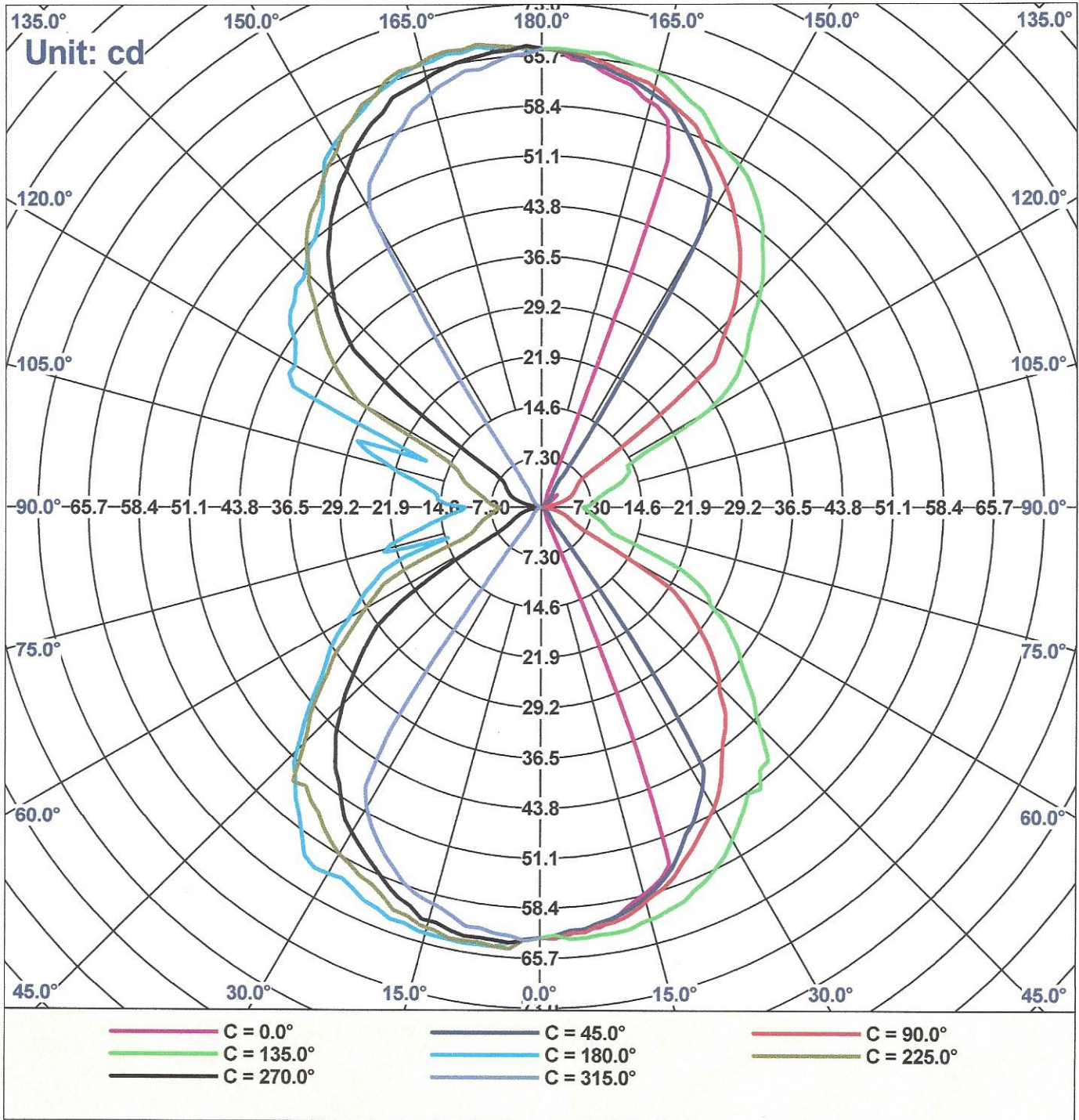
Through 0°/180° C-Plane:	Beam Angle: 20.9°	Field Angle: 22.0°
Through 90°/270° C-Plane:	Beam Angle: 48.8°	Field Angle: 55.9°
Through Max. Intensity C-Plane (C = 225.0°):	Beam Angle: 57.4°	Field Angle: 88.4°

### Luminous Dimensions:

Base Area:	0.005 m X 0.005 m
Side Area:	N/A
End Area:	N/A
Luminous Shape:	2D Rectangle



# Polar Luminous Intensity Distribution

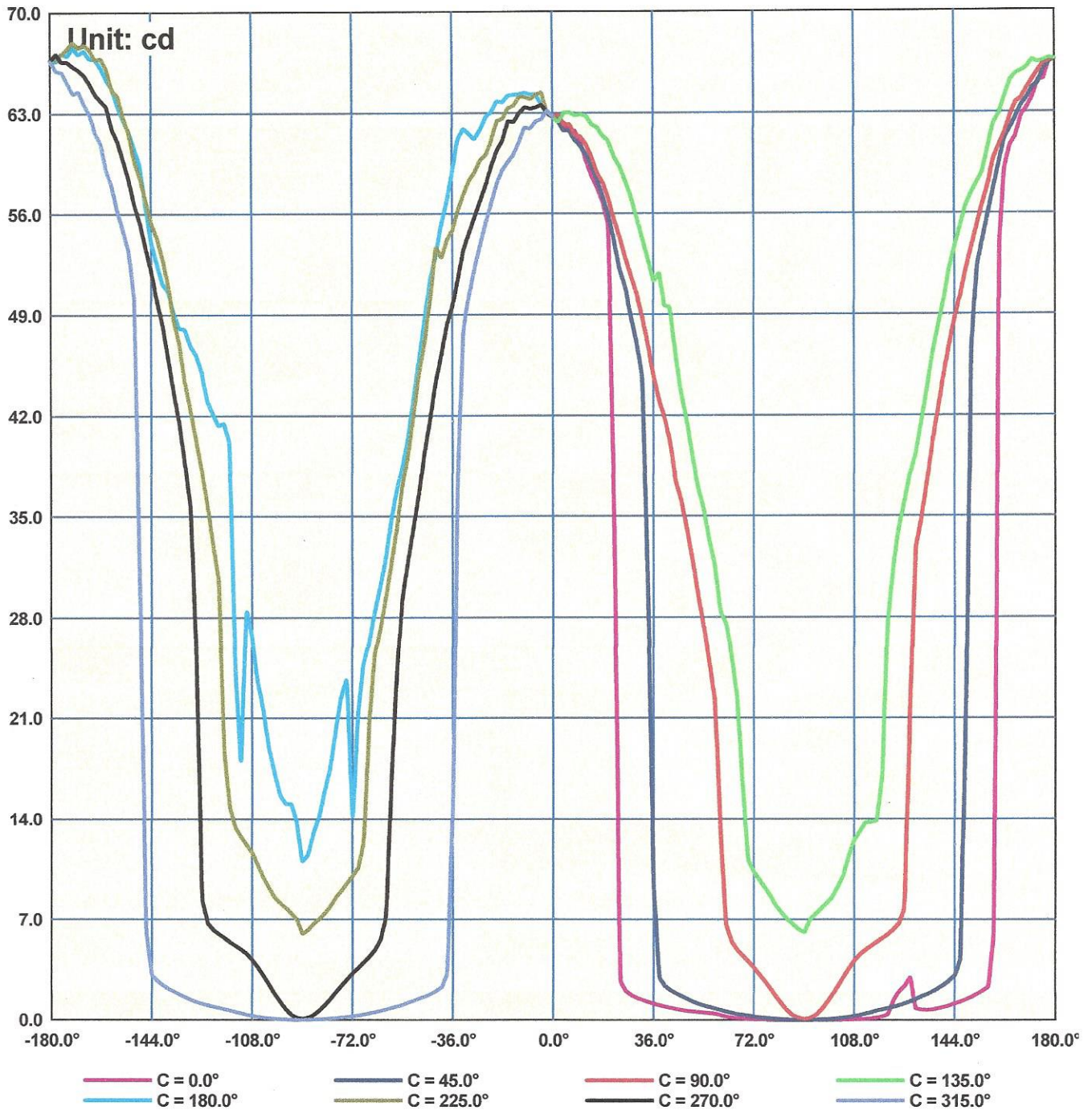


Luminous intensity values are shown radially from centre.  
 Elevation angle values are shown around the outside of the graph.





# Cartesian Luminous Intensity Distribution



Luminous intensity values are shown on the vertical axis.  
Elevation angle values are shown on the horizontal axis.



# Luminous Intensity Table (cd)

$\gamma \setminus C$	0.0°	15.0°	30.0°	45.0°	60.0°	75.0°	90.0°	105.0°	120.0°	135.0°	150.0°	165.0°	180.0°	195.0°	210.0°	225.0°	240.0°
0.0°	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
2.0°	62.6	63.0	62.7	62.4	62.3	62.3	62.9	62.7	62.6	62.4	62.7	62.9	63.1	63.0	63.1	63.0	63.1
4.0°	62.3	62.5	62.1	61.8	63.0	61.9	62.2	62.2	62.6	63.0	63.1	63.0	63.6	63.2	63.5	64.4	63.4
6.0°	61.8	61.9	61.6	61.8	61.9	61.6	62.2	62.5	62.7	63.0	63.3	63.6	64.3	64.1	63.8	64.3	64.2
8.0°	61.8	61.5	61.2	61.1	61.0	61.1	61.5	62.0	62.6	62.8	63.5	64.1	64.3	64.6	64.4	63.9	63.8
10.0°	61.0	60.7	61.2	60.7	60.9	60.9	61.4	61.5	62.4	62.9	63.3	64.1	64.4	65.2	64.1	64.1	63.1
12.0°	59.7	59.7	60.1	60.1	60.3	59.7	60.8	61.3	62.3	62.8	63.4	63.9	64.3	65.0	64.1	64.1	63.0
14.0°	58.6	58.4	59.6	59.3	59.4	59.0	60.0	61.0	61.9	62.2	62.7	63.6	64.3	65.2	64.8	63.5	63.1
16.0°	57.8	57.4	57.6	58.3	58.5	57.9	58.8	60.0	61.3	62.0	62.6	63.6	64.2	65.1	64.8	63.3	62.3
18.0°	56.8	56.4	56.7	57.2	57.4	57.0	58.2	58.9	60.5	61.4	62.2	62.9	63.7	65.4	65.1	62.6	61.5
20.0°	55.1	54.6	55.0	55.9	56.1	55.7	57.0	57.7	58.9	61.1	61.7	62.3	63.8	64.3	64.3	62.4	61.3
22.0°	33.9	49.5	54.1	54.0	54.6	54.6	55.5	56.7	58.6	60.0	61.2	61.7	63.1	64.0	63.4	61.0	60.1
24.0°	2.7	8.0	51.5	52.0	53.2	53.3	54.3	55.7	57.6	59.3	60.6	61.1	62.7	63.1	62.2	60.1	59.1
26.0°	2.0	2.3	40.2	50.8	51.3	51.6	52.9	54.7	56.7	58.3	59.8	60.8	61.8	61.9	61.5	59.7	58.9
28.0°	1.7	2.1	8.9	48.9	50.0	50.5	51.6	53.2	55.1	57.2	58.7	59.8	61.2	61.1	60.2	58.9	57.8
30.0°	1.5	1.8	2.6	47.1	47.9	48.9	50.4	51.8	53.7	55.8	58.2	59.1	61.6	60.5	59.4	58.3	57.2
32.0°	1.4	1.6	2.2	44.8	46.0	47.0	48.9	50.0	52.4	54.3	56.9	60.1	61.9	60.1	58.7	57.4	56.2
34.0°	1.3	1.5	2.0	30.1	43.6	45.1	47.0	48.3	50.6	52.8	56.3	59.7	61.2	63.7	57.0	56.3	55.0
36.0°	1.1	1.3	1.8	9.5	41.6	43.0	44.8	46.7	48.7	51.3	56.9	57.6	58.8	59.0	61.7	54.9	53.2
38.0°	1.0	1.2	1.6	2.9	39.8	41.4	43.0	45.4	47.1	51.9	54.1	55.4	56.8	56.7	56.1	54.2	51.6
40.0°	0.9	1.1	1.4	2.4	38.2	39.8	41.8	43.8	45.1	49.6	51.2	53.2	55.3	54.8	53.8	53.0	49.6
42.0°	0.9	1.0	1.2	2.1	36.4	38.1	40.1	42.2	43.5	49.5	50.6	51.9	53.1	53.3	52.2	53.7	47.8
44.0°	0.8	0.9	1.1	1.9	34.3	36.0	37.4	40.1	42.1	46.3	48.8	49.2	51.5	51.2	50.2	50.1	46.2
46.0°	0.7	0.8	1.0	1.7	32.3	33.8	36.1	38.3	40.5	43.5	45.8	46.9	48.5	48.7	48.4	47.1	45.5
48.0°	0.6	0.7	0.9	1.5	30.4	31.7	34.1	35.9	39.4	41.6	44.0	44.4	45.9	46.3	46.2	45.0	43.1
50.0°	0.6	0.6	0.8	1.3	25.4	29.9	32.0	33.5	36.6	39.1	40.6	42.0	43.1	43.1	43.7	42.1	39.6
52.0°	0.6	0.6	0.7	1.1	17.4	27.9	29.5	31.8	34.4	37.0	39.1	40.4	40.4	40.8	41.3	39.3	37.2
54.0°	0.5	0.5	0.6	1.0	8.0	24.2	27.3	29.7	32.6	35.5	37.5	38.2	38.5	38.1	38.6	37.2	35.0
56.0°	0.5	0.5	0.5	0.9	3.4	21.9	25.0	26.7	30.7	33.4	34.9	36.0	36.9	36.2	35.1	34.3	32.9
58.0°	0.4	0.5	0.5	0.8	2.5	19.5	22.2	24.6	28.0	31.6	32.3	34.0	34.8	34.4	32.8	31.8	30.5
60.0°	0.3	0.4	0.4	0.7	2.1	14.4	13.4	19.4	26.4	28.4	30.7	31.6	32.1	32.5	31.6	29.4	27.4
62.0°	0.2	0.4	0.4	0.6	1.8	5.3	6.6	8.4	23.6	27.5	28.4	29.2	30.2	30.0	30.0	27.2	20.2
64.0°	0.2	0.3	0.3	0.5	1.5	4.1	5.5	7.3	14.5	25.4	25.7	25.7	28.4	27.8	27.9	25.5	10.6
66.0°	0.1	0.3	0.3	0.4	1.3	3.5	4.9	6.8	9.9	22.5	24.5	24.5	26.3	26.0	25.3	20.7	9.2
68.0°	0.1	0.3	0.3	0.4	1.1	3.1	4.5	6.3	9.1	16.1	23.5	23.0	24.8	25.0	23.3	12.4	8.5
70.0°	0.1	0.5	0.2	0.3	1.0	2.7	4.1	5.9	8.5	11.1	21.9	22.3	21.2	23.5	21.4	10.6	8.1
72.0°	0.0	0.1	0.2	0.2	0.8	2.3	3.6	5.5	8.0	10.3	19.4	13.8	13.8	13.7	20.1	10.0	7.7





## Luminous Intensity Table (cd) (Continued)

$\gamma \setminus C$	0.0°	15.0°	30.0°	45.0°	60.0°	75.0°	90.0°	105.0°	120.0°	135.0°	150.0°	165.0°	180.0°	195.0°	210.0°	225.0°	240.0°		
74.0°	0.0	0.1	0.4	0.2	0.6	2.0	3.2	5.0	7.5	9.8	12.3	22.4	23.8	21.9	12.2	9.6	7.2		
76.0°	0.0	0.0	0.3	0.1	0.5	1.6	2.7	4.4	6.9	9.2	12.0	21.5	22.5	22.2	11.3	9.0	6.7		
78.0°	0.0	0.0	0.2	0.1	0.4	1.2	2.2	3.9	6.4	8.7	10.7	19.7	20.1	19.8	10.7	8.6	6.2		
80.0°	0.0	0.0	0.1	0.1	0.3	0.9	1.6	3.3	5.8	8.0	10.0	17.3	17.6	17.4	10.0	7.9	5.7		
82.0°	0.0	0.0	0.0	0.1	0.2	0.6	1.1	2.8	5.2	7.4	9.6	15.0	16.0	15.5	9.6	7.4	5.1		
84.0°	0.0	0.0	0.0	0.0	0.1	0.3	0.7	2.3	4.6	7.0	9.2	13.3	14.2	13.7	9.2	7.0	4.6		
86.0°	0.0	0.0	0.0	0.0	0.0	0.1	0.3	2.0	4.1	6.7	8.8	12.6	13.0	12.6	8.8	6.7	4.2		
88.0°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.7	3.7	6.3	8.6	12.0	11.5	11.9	8.5	6.3	3.8		
90.0°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.6	3.5	6.1	8.3	11.5	11.0	11.5	8.1	6.0	3.5		
92.0°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.8	4.1	7.0	9.8	13.6	13.8	13.9	9.7	7.0	4.1		
94.0°	0.0	0.0	0.0	0.0	0.0	0.1	0.3	2.1	4.5	7.4	10.1	14.2	15.0	14.4	10.2	7.4	4.4		
96.0°	0.0	0.0	0.0	0.0	0.1	0.3	0.7	2.4	4.9	7.8	10.3	14.6	15.1	14.5	10.4	7.8	4.9		
98.0°	0.0	0.0	0.0	0.1	0.2	0.6	1.2	3.0	5.5	8.2	10.7	15.3	15.6	15.2	10.7	8.2	5.5		
100.0°	0.0	0.0	0.1	0.1	0.3	1.0	1.7	3.6	6.1	8.6	11.0	16.7	17.2	16.4	11.0	8.6	6.1		
102.0°	0.0	0.0	0.1	0.1	0.4	1.4	2.4	4.3	6.9	9.3	11.6	19.1	18.9	18.8	11.5	9.2	6.8		
104.0°	0.0	0.1	0.2	0.2	0.6	1.8	3.0	5.0	7.6	10.1	12.4	21.4	21.6	21.2	12.2	9.9	7.6		
106.0°	0.0	0.1	0.2	0.2	0.7	2.2	3.6	5.6	8.3	11.4	13.3	23.9	23.6	23.8	12.8	10.8	8.2		
108.0°	0.0	0.1	0.3	0.3	0.9	2.6	4.2	6.2	8.8	12.5	14.1	26.4	26.7	26.4	13.6	11.7	8.6		
110.0°	0.1	0.2	0.3	0.3	1.1	2.9	4.6	6.7	9.3	13.1	15.2	28.1	28.6	27.9	14.8	12.2	9.0		
112.0°	0.1	0.3	0.4	0.4	1.3	3.2	4.9	7.0	9.6	13.7	25.9	31.1	31.1	31.1	17.6	15.9	28.3	12.7	9.3
114.0°	0.1	0.4	0.4	0.5	1.5	3.5	5.2	7.2	9.9	13.8	33.1	32.3	32.3	32.3	24.8	28.1	35.6	13.4	9.6
116.0°	0.2	0.5	0.5	0.7	1.7	3.7	5.4	7.5	10.3	13.9	38.7	40.0	40.1	40.1	34.9	37.4	44.8	14.8	10.0
118.0°	0.3	0.6	0.7	0.7	1.9	4.0	5.7	7.8	10.6	17.0	38.0	41.7	41.5	41.5	44.0	33.9	38.7	18.7	10.3
120.0°	0.4	0.8	0.8	0.8	2.1	4.2	6.0	8.1	11.1	27.8	38.3	40.7	41.3	41.3	44.2	32.7	30.7	30.7	10.7
122.0°	1.3	1.2	0.9	0.9	2.3	4.6	6.3	8.4	12.3	31.5	37.1	40.3	42.1	40.8	35.6	33.1	32.0	32.0	12.0
124.0°	2.0	1.9	1.2	1.0	2.6	5.1	6.7	8.9	24.2	34.2	37.1	40.8	43.0	41.9	38.1	35.8	35.8	25.5	25.5
126.0°	2.4	3.0	1.7	1.2	3.0	7.2	7.9	11.8	32.5	36.0	38.8	40.8	45.1	43.1	40.8	38.2	35.4	35.4	35.4
128.0°	3.0	4.1	2.1	1.3	4.3	24.9	21.6	30.3	34.4	37.9	40.5	42.0	46.2	43.3	42.7	40.3	37.8	37.8	37.8
130.0°	0.8	1.2	0.9	1.5	10.0	30.7	32.8	34.4	37.3	39.3	42.5	43.6	46.9	43.9	44.4	42.4	40.1	40.1	40.1
132.0°	0.7	0.8	1.0	1.6	25.7	33.5	34.8	37.1	39.4	41.5	44.3	45.4	48.0	46.1	45.6	44.4	43.1	43.1	43.1
134.0°	0.7	0.8	1.1	1.8	35.8	35.7	37.2	39.9	40.9	43.8	45.8	47.3	48.1	48.3	48.3	47.0	45.7	45.7	45.7
136.0°	0.7	0.9	1.2	2.0	38.3	37.7	40.1	41.8	43.3	46.2	47.7	49.2	49.2	49.1	49.7	48.7	47.9	47.9	47.9
138.0°	0.8	1.0	1.3	2.2	40.4	40.4	42.3	43.4	46.3	48.0	50.1	51.1	50.7	51.4	51.6	51.1	50.1	50.1	50.1
140.0°	0.9	1.1	1.5	2.5	41.6	42.4	44.7	45.4	48.0	49.8	51.7	52.9	51.2	53.4	53.7	52.9	51.8	51.8	51.8
142.0°	1.0	1.2	1.7	2.8	43.9	45.0	46.8	47.5	49.9	52.1	53.8	54.9	52.5	55.5	55.6	54.4	53.7	53.7	53.7
144.0°	1.2	1.4	1.9	3.1	45.8	47.2	48.6	49.6	52.0	53.7	55.4	56.3	54.0	56.3	56.4	55.3	55.5	55.5	55.5
146.0°	1.3	1.5	2.2	4.3	48.0	49.5	50.3	51.6	53.8	55.1	56.8	57.9	56.6	57.4	57.6	57.0	56.8	56.8	56.8



## Luminous Intensity Table (cd) (Continued)

$\gamma \setminus C$	0.0°	15.0°	30.0°	45.0°	60.0°	75.0°	90.0°	105.0°	120.0°	135.0°	150.0°	165.0°	180.0°	195.0°	210.0°	225.0°	240.0°
148.0°	1.4	1.7	2.4	21.3	50.1	51.3	52.1	52.9	54.8	56.5	58.1	59.1	59.5	59.4	59.5	58.6	57.7
150.0°	1.6	1.9	2.7	46.4	52.5	52.8	53.7	54.5	56.1	57.4	59.0	60.0	60.6	60.7	60.4	59.7	59.1
152.0°	1.8	2.1	3.1	52.3	53.5	54.3	55.2	56.2	57.8	58.1	59.9	60.9	61.7	61.9	61.4	61.7	60.5
154.0°	2.1	2.4	9.5	54.2	55.5	55.9	56.7	57.4	59.2	58.9	61.0	61.5	62.6	63.0	63.0	62.7	62.5
156.0°	2.3	2.8	41.9	56.0	56.5	57.2	58.0	59.1	60.1	60.5	62.4	62.2	63.5	64.0	64.8	64.2	63.3
158.0°	6.1	15.2	57.3	57.8	57.9	58.4	59.8	60.0	61.2	62.2	63.3	64.1	64.8	65.2	65.5	64.6	63.9
160.0°	53.8	57.1	59.2	59.5	59.1	59.9	60.7	61.4	62.0	62.9	64.2	65.0	65.4	65.7	66.1	66.1	64.6
162.0°	59.2	59.2	60.0	61.2	60.9	60.7	61.5	61.8	62.7	64.1	65.0	65.6	66.2	66.1	66.6	66.8	65.7
164.0°	60.7	60.4	61.6	61.9	62.0	62.3	62.8	63.0	63.6	65.2	65.7	66.4	66.8	66.3	66.8	66.7	66.5
166.0°	61.3	61.8	62.2	62.7	62.4	62.7	63.7	63.5	64.6	65.7	66.3	66.4	66.8	67.1	67.0	67.5	67.5
168.0°	62.8	62.8	63.1	63.5	63.5	63.3	64.0	64.7	65.2	65.9	66.6	66.6	67.4	67.4	67.3	67.8	67.7
170.0°	63.3	64.0	63.8	64.0	64.6	64.2	64.6	65.1	65.6	66.1	66.7	66.7	67.1	67.7	67.8	67.6	67.4
172.0°	64.0	64.6	64.7	64.7	64.9	65.0	65.3	65.6	65.9	66.6	67.0	67.2	67.6	67.9	67.8	68.0	67.7
174.0°	65.2	65.2	65.5	65.0	65.8	65.7	65.8	66.5	65.8	66.4	66.9	67.1	67.0	67.4	67.6	67.5	67.4
176.0°	65.3	65.9	65.9	66.0	66.3	65.8	66.4	66.6	66.1	66.6	67.1	66.8	67.2	67.1	67.4	67.1	67.1
178.0°	66.6	66.3	66.7	66.5	66.3	66.1	66.5	66.5	66.7	66.7	66.8	66.6	66.6	66.8	67.2	66.8	67.0
180.0°	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7





## Luminous Intensity Table (cd) (Continued)

$\gamma \setminus C$	255.0°	270.0°	285.0°	300.0°	315.0°	330.0°	345.0°	360.0°
0.0°	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
2.0°	63.4	63.0	63.1	62.9	63.2	63.2	62.5	62.6
4.0°	63.7	63.6	63.1	62.7	62.6	62.5	62.2	62.3
6.0°	63.9	63.4	63.1	62.2	62.4	62.4	62.3	61.8
8.0°	63.5	63.3	63.1	62.6	61.9	62.4	61.3	61.8
10.0°	63.1	63.4	62.8	61.8	62.0	61.9	60.5	61.0
12.0°	63.4	63.0	62.2	61.7	60.9	61.3	60.3	59.7
14.0°	62.2	62.4	61.7	60.6	60.1	59.9	59.3	58.6
16.0°	61.8	62.4	60.7	60.7	59.6	59.0	58.7	57.8
18.0°	61.8	61.1	60.6	60.2	59.0	58.1	57.2	56.8
20.0°	60.5	60.4	59.8	59.1	58.1	56.7	56.2	55.1
22.0°	60.3	59.3	58.5	57.7	56.7	55.4	54.2	33.9
24.0°	59.4	58.0	57.7	56.9	55.4	53.5	22.2	2.7
26.0°	58.2	56.9	56.2	54.9	53.9	43.4	2.6	2.0
28.0°	57.3	55.8	55.2	53.8	52.3	15.3	2.0	1.7
30.0°	55.9	54.7	53.5	52.3	50.4	2.8	1.8	1.5
32.0°	54.5	53.6	52.1	50.8	48.0	2.2	1.6	1.4
34.0°	52.8	51.6	50.5	48.8	38.9	1.9	1.4	1.3
36.0°	51.2	49.7	48.3	46.7	14.7	1.7	1.3	1.1
38.0°	49.5	48.3	46.4	45.0	3.3	1.5	1.2	1.0
40.0°	48.0	46.3	44.6	42.6	2.3	1.4	1.1	0.9
42.0°	45.4	44.4	42.8	40.3	2.0	1.2	1.0	0.9
44.0°	43.1	41.8	40.3	38.5	1.8	1.1	0.9	0.8
46.0°	40.9	39.6	38.1	36.2	1.6	1.0	0.8	0.7
48.0°	38.9	36.7	35.3	33.9	1.5	0.9	0.7	0.6
50.0°	36.7	34.3	32.3	31.8	1.3	0.8	0.6	0.6
52.0°	34.2	32.0	29.4	24.7	1.2	0.7	0.6	0.6
54.0°	31.5	29.5	26.3	16.2	1.1	0.6	0.5	0.5
56.0°	29.2	24.5	23.1	7.3	0.9	0.5	0.5	0.5
58.0°	23.3	17.0	14.4	3.2	0.8	0.5	0.5	0.4
60.0°	11.4	7.2	5.5	2.3	0.7	0.4	0.4	0.3
62.0°	7.6	5.6	4.2	1.9	0.6	0.4	0.4	0.2
64.0°	6.8	4.9	3.6	1.6	0.5	0.3	0.3	0.2
66.0°	6.2	4.4	3.2	1.4	0.5	0.3	0.3	0.1
68.0°	5.8	4.0	2.8	1.2	0.4	0.3	0.3	0.1
70.0°	5.4	3.6	2.5	1.0	0.3	0.3	0.2	0.1
72.0°	5.0	3.3	2.2	0.9	0.3	0.4	0.1	0.0





## Luminous Intensity Table (cd) (Continued)

$\gamma \setminus C$	255.0°	270.0°	285.0°	300.0°	315.0°	330.0°	345.0°	360.0°
74.0°	4.6	2.8	1.8	0.7	0.2	0.3	0.1	0.0
76.0°	4.2	2.4	1.5	0.5	0.2	0.2	0.0	0.0
78.0°	3.7	2.0	1.2	0.4	0.1	0.1	0.0	0.0
80.0°	3.2	1.5	0.9	0.3	0.1	0.1	0.0	0.0
82.0°	2.8	1.0	0.6	0.2	0.1	0.0	0.0	0.0
84.0°	2.3	0.7	0.3	0.1	0.0	0.0	0.0	0.0
86.0°	2.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0
88.0°	1.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0
90.0°	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0
92.0°	1.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0
94.0°	2.1	0.3	0.2	0.0	0.0	0.0	0.0	0.0
96.0°	2.4	0.7	0.3	0.1	0.0	0.0	0.0	0.0
98.0°	3.0	1.3	0.7	0.2	0.0	0.0	0.0	0.0
100.0°	3.6	1.8	1.0	0.3	0.1	0.1	0.0	0.0
102.0°	4.3	2.5	1.3	0.5	0.1	0.1	0.0	0.0
104.0°	4.9	3.1	1.8	0.6	0.1	0.2	0.1	0.0
106.0°	5.5	3.7	2.2	0.8	0.2	0.2	0.1	0.0
108.0°	6.1	4.2	2.6	1.0	0.3	0.3	0.1	0.0
110.0°	6.5	4.6	2.9	1.1	0.4	0.3	0.2	0.1
112.0°	6.8	4.9	3.2	1.3	0.5	0.4	0.3	0.1
114.0°	7.0	5.2	3.4	1.5	0.6	0.4	0.4	0.1
116.0°	7.3	5.4	3.7	1.7	0.7	0.5	0.5	0.2
118.0°	7.6	5.7	4.0	1.9	0.7	0.7	0.9	0.3
120.0°	7.9	6.0	4.3	2.1	0.8	1.1	2.0	0.4
122.0°	8.3	6.3	4.6	2.4	0.9	1.8	1.4	1.3
124.0°	8.9	6.7	5.2	2.6	1.0	1.8	1.4	2.0
126.0°	14.0	8.4	7.8	3.1	1.1	2.2	1.5	2.4
128.0°	33.4	25.3	26.7	5.3	1.2	2.7	1.2	3.0
130.0°	38.4	35.5	33.4	14.4	1.4	0.9	0.7	0.8
132.0°	41.2	38.6	35.5	29.1	1.6	0.9	0.7	0.7
134.0°	43.3	41.5	38.8	36.6	1.8	1.0	0.8	0.7
136.0°	45.3	43.7	40.6	38.2	2.0	1.1	0.8	0.7
138.0°	47.5	46.0	42.6	41.6	2.2	1.3	1.0	0.8
140.0°	49.8	48.3	45.1	45.0	2.4	1.4	1.1	0.9
142.0°	52.2	50.0	47.2	46.8	2.7	1.6	1.2	1.0
144.0°	53.6	52.0	49.4	48.2	3.1	1.8	1.4	1.2
146.0°	55.5	53.6	51.2	49.5	6.1	2.1	1.5	1.3



## Luminous Intensity Table (cd) (Continued)

$\gamma \setminus C$	255.0°	270.0°	285.0°	300.0°	315.0°	330.0°	345.0°	360.0°
148.0°	56.8	55.4	53.0	50.5	28.8	2.3	1.7	1.4
150.0°	58.2	56.6	54.5	52.3	49.9	2.6	1.9	1.6
152.0°	60.4	58.4	56.2	53.9	53.3	3.1	2.1	1.8
154.0°	60.9	59.8	57.3	55.9	54.8	12.2	2.4	2.1
156.0°	62.4	61.0	58.7	57.2	56.2	51.5	2.9	2.3
158.0°	63.0	61.9	59.8	58.9	57.9	57.1	22.8	6.1
160.0°	63.8	63.5	61.1	60.6	59.0	58.3	57.0	53.8
162.0°	64.4	63.9	62.0	62.1	60.9	60.1	59.0	59.2
164.0°	65.5	64.3	62.9	63.0	61.7	61.4	60.7	60.7
166.0°	66.6	65.1	63.8	63.6	62.9	62.1	62.0	61.3
168.0°	66.6	65.7	64.7	63.9	63.6	63.2	63.1	62.8
170.0°	66.9	66.0	65.2	64.4	64.5	64.4	63.9	63.3
172.0°	66.9	66.3	65.5	65.0	64.4	64.7	64.4	64.0
174.0°	66.6	66.6	66.2	65.9	65.1	64.8	64.9	65.2
176.0°	67.0	66.6	66.2	66.1	65.9	65.4	65.5	65.3
178.0°	66.7	67.2	66.4	66.8	66.0	66.3	66.1	66.6
180.0°	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7





# Luminous Flux Table

Lumen Summary				Luminaire Summary	
Zone	Lumens (lm)	Lamp %	Luminaire %	Total Lumens (0° - 180°):	266.8 lm
0.0°-30.0°	46.54	17.4	17.4	Downward Lumens (0° - 90°):	133.4 lm
0.0°-40.0°	70.96	26.6	26.6	Upward Lumens (90° - 180°):	133.4 lm
0.0°-60.0°	113.1	42.4	42.4	Light Output Ratio (LOR):	100.0%
0.0°-70.0°	123.2	46.2	46.2	Downward LOR (DLOR):	50.0%
40.0°-90.0°	62.42	23.4	23.4	Upward LOR (ULOR):	50.0%
60.0°-90.0°	20.25	7.6	7.6		
80.0°-90.0°	4.013	1.5	1.5		
90.0°-100.0°	4.330	1.6	1.6		

## Complete Zonal Lumen Analysis

Elevation	Cone	Lumens (lm)	Cumulative	Lamp %	Luminaire %
0°	0.00° - 1.00°	0.1	0.1	0.0	0.0
2°	1.00° - 3.00°	0.5	0.5	0.2	0.2
4°	3.00° - 5.00°	1.0	1.5	0.6	0.6
6°	5.00° - 7.00°	1.4	2.9	1.1	1.1
8°	7.00° - 9.00°	1.9	4.9	1.8	1.8
10°	9.00° - 11.00°	2.4	7.2	2.7	2.7
12°	11.00° - 13.00°	2.8	10.1	3.8	3.8
14°	13.00° - 15.00°	3.3	13.3	5.0	5.0
16°	15.00° - 17.00°	3.7	17.0	6.4	6.4
18°	17.00° - 19.00°	4.1	21.1	7.9	7.9
20°	19.00° - 21.00°	4.4	25.5	9.6	9.6
22°	21.00° - 23.00°	4.7	30.2	11.3	11.3
24°	23.00° - 25.00°	4.6	34.8	13.0	13.0
26°	25.00° - 27.00°	4.7	39.5	14.8	14.8
28°	27.00° - 29.00°	4.7	44.1	16.5	16.5
30°	29.00° - 31.00°	4.8	48.9	18.3	18.3
32°	31.00° - 33.00°	5.0	53.9	20.2	20.2
34°	33.00° - 35.00°	5.0	58.9	22.1	22.1
36°	35.00° - 37.00°	4.9	63.7	23.9	23.9
38°	37.00° - 39.00°	4.8	68.6	25.7	25.7
40°	39.00° - 41.00°	4.8	73.4	27.5	27.5
42°	41.00° - 43.00°	4.9	78.2	29.3	29.3
44°	43.00° - 45.00°	4.8	83.0	31.1	31.1
46°	45.00° - 47.00°	4.7	87.8	32.9	32.9
48°	47.00° - 49.00°	4.6	92.4	34.6	34.6
50°	49.00° - 51.00°	4.4	96.8	36.3	36.3
52°	51.00° - 53.00°	4.2	101.0	37.8	37.9
54°	53.00° - 55.00°	3.9	104.9	39.3	39.3
56°	55.00° - 57.00°	3.6	108.5	40.7	40.7
58°	57.00° - 59.00°	3.3	111.8	41.9	41.9
60°	59.00° - 61.00°	2.8	114.5	42.9	42.9
62°	61.00° - 63.00°	2.3	116.9	43.8	43.8
64°	63.00° - 65.00°	2.0	118.9	44.6	44.6
66°	65.00° - 67.00°	1.9	120.8	45.3	45.3
68°	67.00° - 69.00°	1.7	122.4	45.9	45.9
70°	69.00° - 71.00°	1.5	124.0	46.5	46.5
72°	71.00° - 73.00°	1.2	125.2	46.9	46.9
74°	73.00° - 75.00°	1.3	126.5	47.4	47.4
76°	75.00° - 77.00°	1.2	127.7	47.9	47.9
78°	77.00° - 79.00°	1.1	128.9	48.3	48.3
80°	79.00° - 81.00°	1.0	129.9	48.7	48.7



## Luminous Flux Table (Continued)

### Complete Zonal Lumen Analysis

Elevation	Cone	Lumens (lm)	Cumulative	Lamp %	Luminaire %
82°	81.00° - 83.00°	0.9	130.8	49.0	49.0
84°	83.00° - 85.00°	0.8	131.6	49.3	49.3
86°	85.00° - 87.00°	0.8	132.4	49.6	49.6
88°	87.00° - 89.00°	0.7	133.1	49.9	49.9
90°	89.00° - 91.00°	0.7	133.7	50.1	50.1
92°	91.00° - 93.00°	0.8	134.5	50.4	50.4
94°	93.00° - 95.00°	0.8	135.4	50.7	50.7
96°	95.00° - 97.00°	0.9	136.2	51.1	51.1
98°	97.00° - 99.00°	1.0	137.2	51.4	51.4
100°	99.00° - 101.00°	1.0	138.2	51.8	51.8
102°	101.00° - 103.00°	1.2	139.4	52.2	52.3
104°	103.00° - 105.00°	1.3	140.7	52.7	52.7
106°	105.00° - 107.00°	1.4	142.1	53.3	53.3
108°	107.00° - 109.00°	1.5	143.6	53.8	53.8
110°	109.00° - 111.00°	1.6	145.3	54.5	54.5
112°	111.00° - 113.00°	1.6	146.8	55.0	55.0
114°	113.00° - 115.00°	2.0	148.8	55.8	55.8
116°	115.00° - 117.00°	2.3	151.1	56.6	56.7
118°	117.00° - 119.00°	2.4	153.5	57.6	57.6
120°	119.00° - 121.00°	2.6	156.1	58.5	58.5
122°	121.00° - 123.00°	2.6	158.7	59.5	59.5
124°	123.00° - 125.00°	2.9	161.6	60.6	60.6
126°	125.00° - 127.00°	3.2	164.7	61.7	61.8
128°	127.00° - 129.00°	4.0	168.7	63.2	63.2
130°	129.00° - 131.00°	4.3	173.0	64.9	64.9
132°	131.00° - 133.00°	4.6	177.7	66.6	66.6
134°	133.00° - 135.00°	4.8	182.5	68.4	68.4
136°	135.00° - 137.00°	4.9	187.3	70.2	70.2
138°	137.00° - 139.00°	4.9	192.3	72.1	72.1
140°	139.00° - 141.00°	4.9	197.2	73.9	73.9
142°	141.00° - 143.00°	4.9	202.1	75.7	75.8
144°	143.00° - 145.00°	4.9	206.9	77.6	77.6
146°	145.00° - 147.00°	4.8	211.7	79.4	79.4
148°	147.00° - 149.00°	4.9	216.6	81.2	81.2
150°	149.00° - 151.00°	4.9	221.5	83.0	83.0
152°	151.00° - 153.00°	4.8	226.3	84.8	84.8
154°	153.00° - 155.00°	4.6	230.9	86.5	86.5
156°	155.00° - 157.00°	4.6	235.5	88.3	88.3
158°	157.00° - 159.00°	4.5	240.1	90.0	90.0
160°	159.00° - 161.00°	4.6	244.7	91.7	91.7
162°	161.00° - 163.00°	4.3	248.9	93.3	93.3
164°	163.00° - 165.00°	3.8	252.8	94.7	94.8
166°	165.00° - 167.00°	3.4	256.2	96.0	96.0
168°	167.00° - 169.00°	3.0	259.2	97.1	97.1
170°	169.00° - 171.00°	2.5	261.7	98.1	98.1
172°	171.00° - 173.00°	2.0	263.7	98.8	98.8
174°	173.00° - 175.00°	1.5	265.2	99.4	99.4
176°	175.00° - 177.00°	1.0	266.2	99.8	99.8
178°	177.00° - 179.00°	0.5	266.7	100.0	100.0
180°	179.00° - 180.00°	0.1	266.8	100.0	100.0





## Average Luminance Table

All luminance values expressed in cd / squ.m

Azimuth:	0°	45°	90°	135°	180°	270°	315°
Elevation 0°	2510000	2510000	2510000	2510000	2510000	2510000	2510000



# IsoLux Diagram

Distance = 0.100 m

## Legend

Unit: lx  
Max = 254.6

- 203.7 (80.0%)
- 152.8 (60.0%)
- 101.8 (40.0%)
- 50.92 (20.0%)
- 25.46 (10.0%)

