

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P772664

Luminaire Tested: LD6D85BD010-EU6DR3070959040-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD6D85BD010-EU6DR3070959040-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8557.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

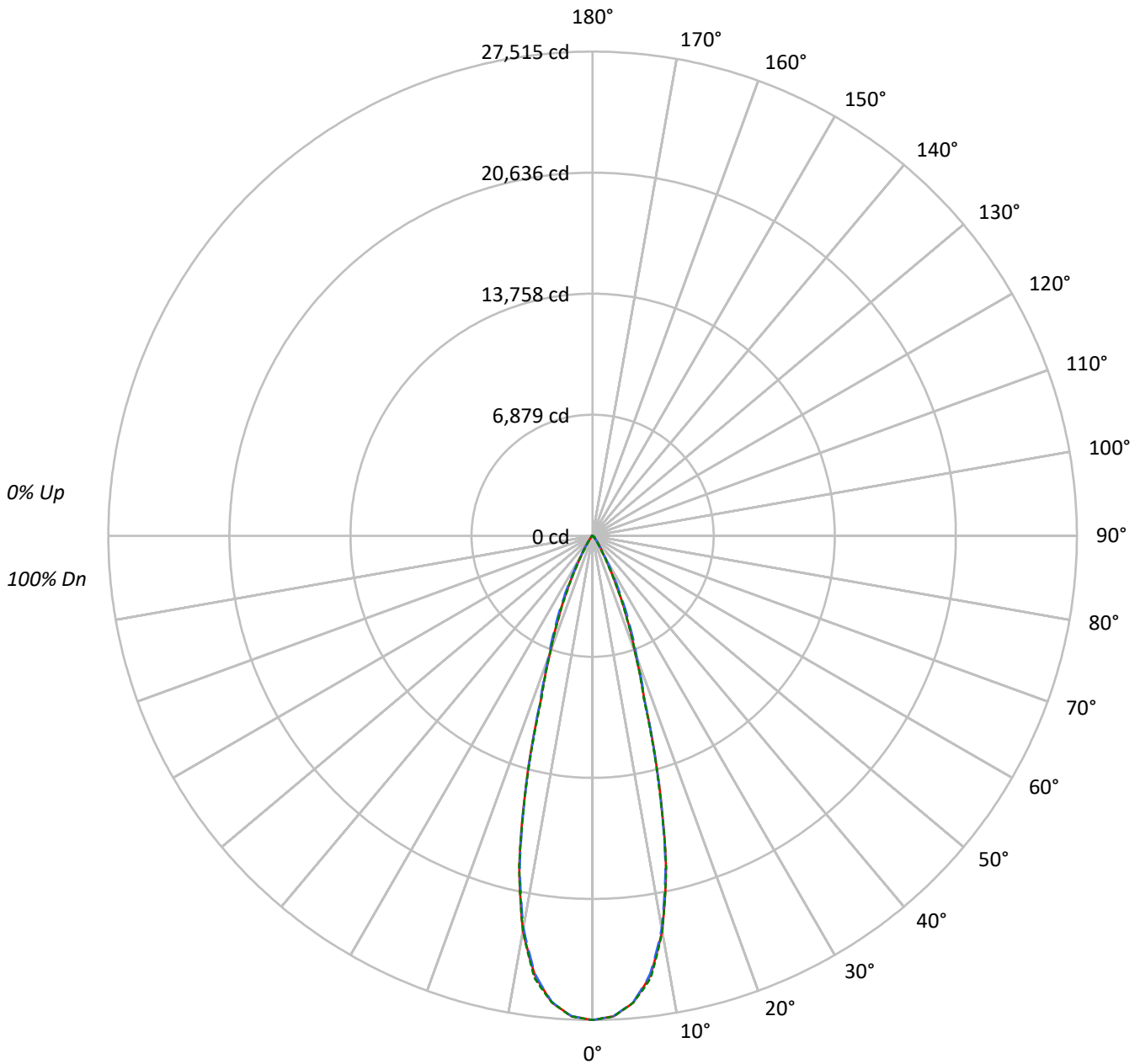


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2106069	2106069	2106069
5°	2045607	2043225	2045714
10°	1771809	1759311	1771389
15°	1156013	1149808	1144023
20°	574833	596403	574060
25°	289558	326525	283630
30°	115934	126319	101006
35°	53776	51505	43170
40°	23221	25779	21863
45°	16378	20329	16519
50°	5633	14802	5954
55°	3243	6125	3430
60°	2281	2694	2281
65°	1467	1467	1467
70°	918	604	918
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 20329 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2419.5	28.3
10°-20°	3896.6	45.5
20°-30°	1683.8	19.7
30°-40°	383.8	4.5
40°-50°	131.8	1.5
50°-60°	32.2	0.4
60°-70°	8.3	0.1
70°-80°	0.9	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8000.0	93.5
0°-40°	8383.8	98.0
0°-60°	8547.7	99.9
0°-90°	8557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27515	27515	27515	27515	27515	
5°	26623	26598	26592	26647	26624	2422
15°	14588	14412	14510	14462	14437	3906
25°	3428	3558	3866	3468	3358	1641
35°	576	588	551	547	462	390
45°	151	188	188	188	153	107
55°	24	26	46	27	26	24
65°	8	8	8	8	8	8
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	27514.7	27514.7	27514.7	27514.7	27514.7
2.5°	27332.3	27313.4	27324.2	27337.7	27343.2
5°	26623.1	26597.5	26592.1	26647.4	26624.5
7.5°	25192.6	25156.1	25100.7	25226.3	25343.8
10°	22796.1	22755.6	22635.3	22694.8	22790.7
12.5°	19258.1	19127.1	19124.4	19313.5	19287.9
15°	14588.1	14412.5	14509.8	14462.5	14436.8
17.5°	9810.1	9742.5	9872.2	9833.1	9664.2
20°	7057.0	7074.6	7321.8	7197.5	7047.5
22.5°	5149.6	5213.0	5506.2	5186.0	5068.5
25°	3428.5	3558.2	3866.2	3467.7	3358.3
27.5°	2108.7	2168.2	2480.2	2081.7	2022.3
30°	1311.7	1282.0	1429.2	1226.6	1142.8
32.5°	860.5	822.7	870.0	780.8	713.3
35°	575.5	587.6	551.2	547.1	462.0
37.5°	359.3	413.4	364.7	389.1	297.2
40°	232.4	299.9	258.0	285.0	218.8
42.5°	190.5	231.0	212.1	225.6	194.5
45°	151.3	187.8	187.8	187.8	152.6
47.5°	83.8	125.6	160.8	128.3	89.2
50°	47.3	63.5	124.3	66.2	50.0
52.5°	32.4	36.5	85.1	37.8	33.8
55°	24.3	25.7	45.9	27.0	25.7
57.5°	18.9	20.3	24.3	20.3	18.9
60°	14.9	14.9	17.6	16.2	14.9
62.5°	10.8	10.8	12.2	10.8	10.8
65°	8.1	8.1	8.1	8.1	8.1
67.5°	4.1	5.4	5.4	5.4	5.4
70°	4.1	2.7	2.7	2.7	4.1
72.5°	2.7	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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