

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: P772629

Luminaire Tested: LD6D85BD010-EU6DR3070959027-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772629
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-EU6DR3070959027-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9625.7 lumens
Efficiency: N/A
Efficacy: 109.8 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

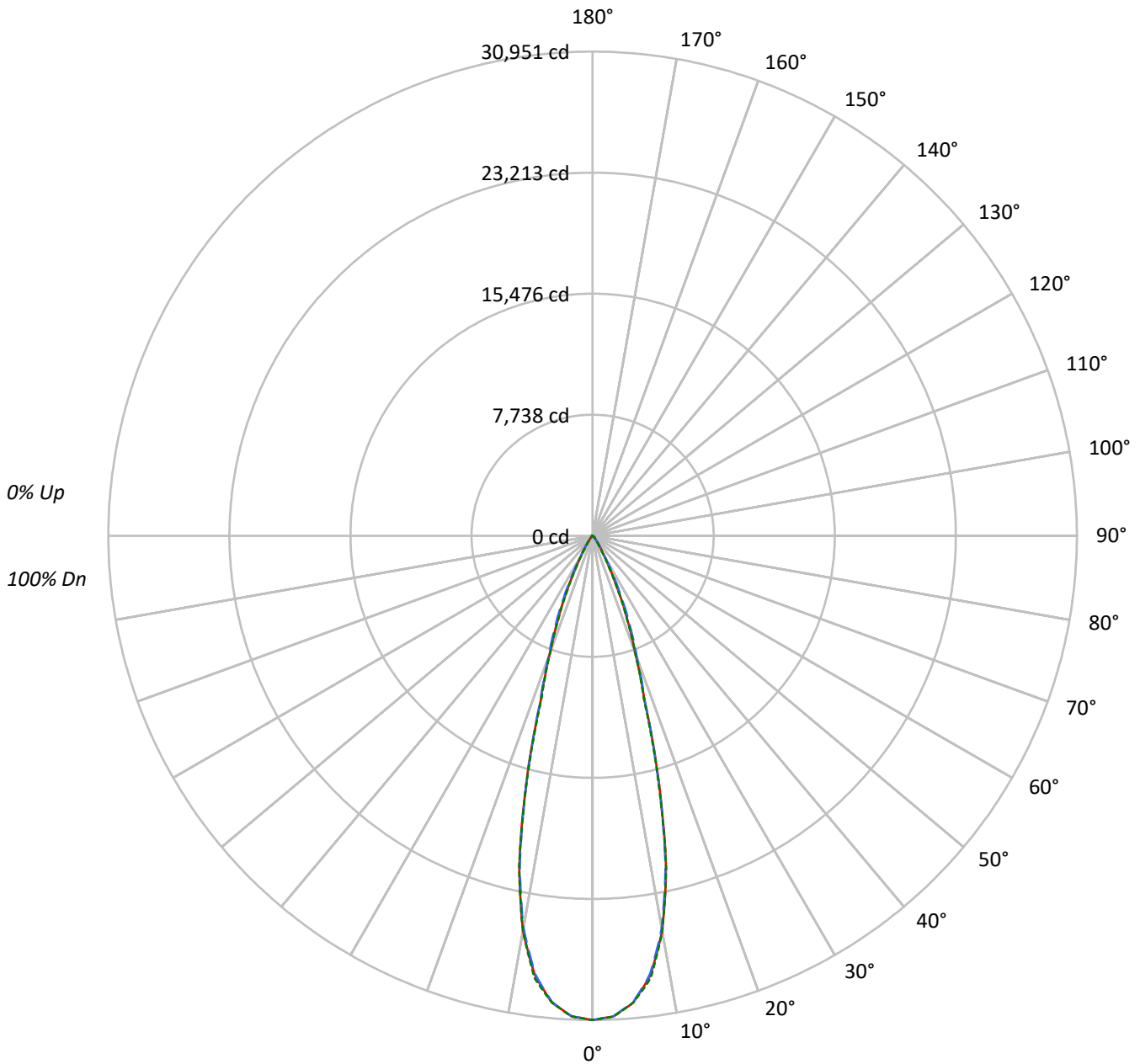


Downlight

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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°	2369118	2369118	2369118
5°	2301109	2298419	2301224
10°	1993105	1979052	1992631
15°	1300403	1293421	1286915
20°	646629	670894	645765
25°	325731	367309	319051
30°	130412	142096	113627
35°	60495	57934	48562
40°	26119	28997	24600
45°	18424	22862	18586
50°	6335	16647	6692
55°	3657	6899	3857
60°	2557	3031	2557
65°	1648	1648	1648
70°	1029	671	1029
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 22862 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2721.7	28.3
10°-20°	4383.3	45.5
20°-30°	1894.2	19.7
30°-40°	431.7	4.5
40°-50°	148.2	1.5
50°-60°	36.2	0.4
60°-70°	9.4	0.1
70°-80°	1.0	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°	8999.2	93.5
0°-40°	9430.9	98.0
0°-60°	9615.3	99.9
0°-90°	9625.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9625.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30951	30951	30951	30951	30951	
5°	29948	29920	29913	29976	29950	2724
15°	16410	16213	16322	16269	16240	4394
25°	3857	4003	4349	3901	3778	1846
35°	647	661	620	615	520	439
45°	170	211	211	211	172	121
55°	27	29	52	30	29	27
65°	9	9	9	9	9	9
75°	0	0	2	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°	30951.3	30951.3	30951.3	30951.3	30951.3
2.5°	30746.2	30724.9	30737.0	30752.2	30758.3
5°	29948.4	29919.5	29913.4	29975.7	29949.9
7.5°	28339.1	28298.1	28235.8	28377.1	28509.3
10°	25643.3	25597.7	25462.5	25529.4	25637.2
12.5°	21663.5	21516.1	21513.0	21725.8	21696.9
15°	16410.2	16212.7	16322.1	16268.9	16240.0
17.5°	11035.4	10959.4	11105.3	11061.2	10871.2
20°	7938.4	7958.2	8236.3	8096.5	7927.8
22.5°	5792.7	5864.2	6193.9	5833.8	5701.6
25°	3856.8	4002.6	4349.1	3900.8	3777.7
27.5°	2372.1	2439.0	2790.0	2341.7	2274.8
30°	1475.5	1442.1	1607.7	1379.8	1285.6
32.5°	968.0	925.4	978.6	878.3	802.4
35°	647.4	661.0	620.0	615.4	519.7
37.5°	404.2	465.0	410.3	437.6	334.3
40°	261.4	337.4	290.2	320.6	246.2
42.5°	214.3	259.9	238.6	253.8	218.8
45°	170.2	211.2	211.2	211.2	171.7
47.5°	94.2	141.3	180.8	144.4	100.3
50°	53.2	71.4	139.8	74.5	56.2
52.5°	36.5	41.0	95.7	42.5	38.0
55°	27.4	28.9	51.7	30.4	28.9
57.5°	21.3	22.8	27.4	22.8	21.3
60°	16.7	16.7	19.8	18.2	16.7
62.5°	12.2	12.2	13.7	12.2	12.2
65°	9.1	9.1	9.1	9.1	9.1
67.5°	4.6	6.1	6.1	6.1	6.1
70°	4.6	3.0	3.0	3.0	4.6
72.5°	3.0	1.5	1.5	1.5	1.5
75°	0.0	0.0	1.5	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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