

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: P790180

Luminaire Tested: LER6D20D010-EC6DR3020359024-6LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790180
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: LER6D20D010-EC6DR3020359024-6LBS1H
Description: 6 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3001.7 lumens
Efficiency: N/A
Efficacy: 129.9 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): 23.1
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

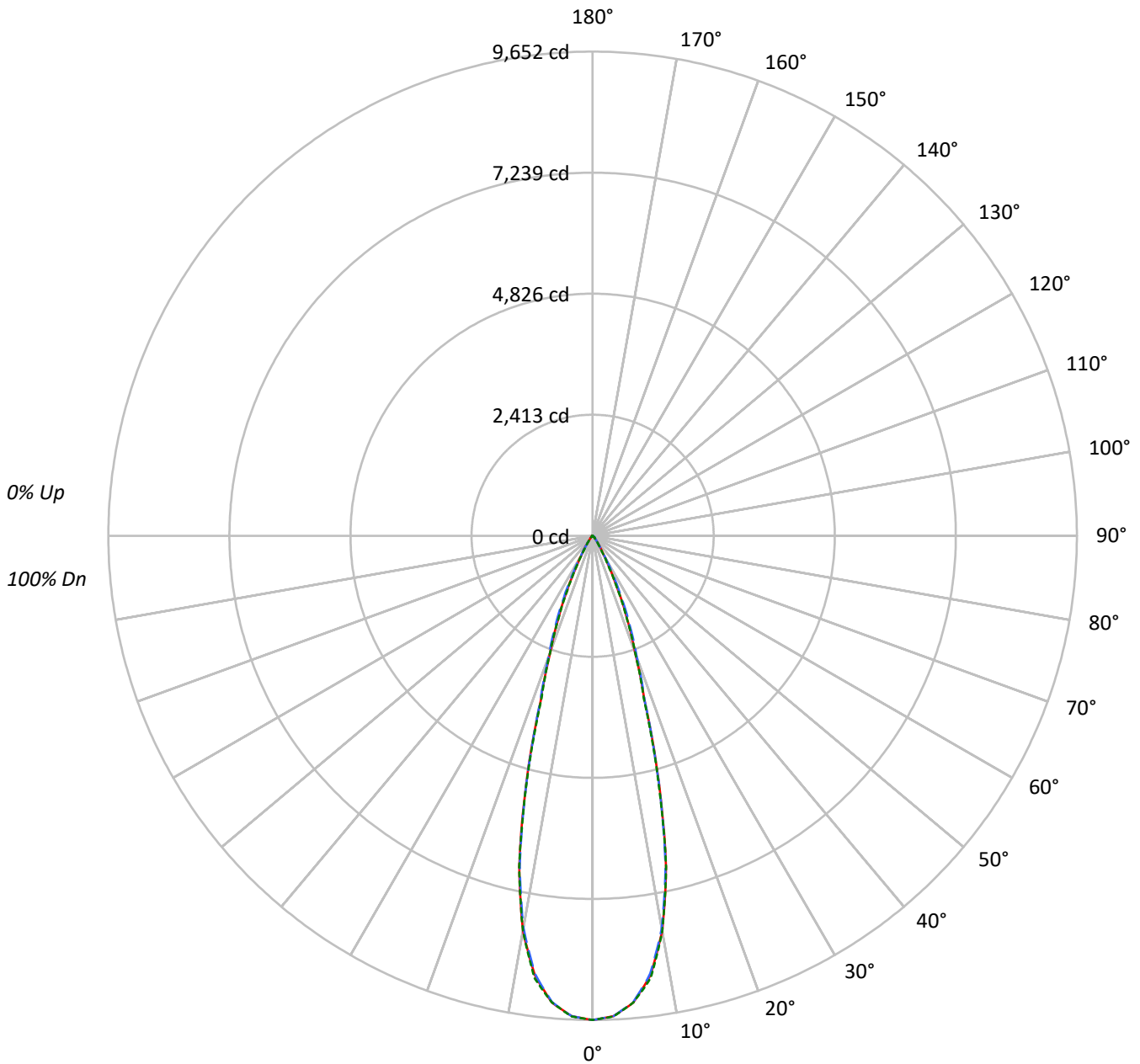


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	738782	738782	738782
5°	717569	716732	717608
10°	621529	617146	621382
15°	405513	403334	401313
20°	201644	209211	201375
25°	101576	114540	99490
30°	40666	44316	35433
35°	18866	18062	15147
40°	8144	9043	7674
45°	5748	7134	5791
50°	1977	5192	2084
55°	1134	2149	1201
60°	796	949	796
65°	507	507	507
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 7134 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	848.7	28.3
10°-20°	1366.9	45.5
20°-30°	590.7	19.7
30°-40°	134.6	4.5
40°-50°	46.2	1.5
50°-60°	11.3	0.4
60°-70°	2.9	0.1
70°-80°	0.3	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°	2806.3	93.5
0°-40°	2940.9	98.0
0°-60°	2998.4	99.9
0°-90°	3001.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3001.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9652	9652	9652	9652	9652	
5°	9339	9330	9328	9348	9340	849
15°	5117	5056	5090	5073	5064	1370
25°	1203	1248	1356	1216	1178	576
35°	202	206	193	192	162	137
45°	53	66	66	66	54	38
55°	8	9	16	10	9	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	9651.8	9651.8	9651.8	9651.8	9651.8
2.5°	9587.8	9581.2	9585.0	9589.7	9591.6
5°	9339.0	9330.0	9328.1	9347.6	9339.5
7.5°	8837.2	8824.4	8805.0	8849.1	8890.3
10°	7996.6	7982.3	7940.2	7961.0	7994.7
12.5°	6755.5	6709.5	6708.6	6774.9	6765.9
15°	5117.3	5055.7	5089.8	5073.3	5064.3
17.5°	3441.2	3417.6	3463.0	3449.3	3390.1
20°	2475.5	2481.7	2568.4	2524.8	2472.2
22.5°	1806.4	1828.7	1931.5	1819.2	1778.0
25°	1202.7	1248.2	1356.2	1216.4	1178.0
27.5°	739.7	760.6	870.0	730.2	709.4
30°	460.1	449.7	501.4	430.3	400.9
32.5°	301.9	288.6	305.2	273.9	250.2
35°	201.9	206.1	193.3	191.9	162.1
37.5°	126.0	145.0	127.9	136.5	104.3
40°	81.5	105.2	90.5	100.0	76.8
42.5°	66.8	81.0	74.4	79.1	68.2
45°	53.1	65.9	65.9	65.9	53.5
47.5°	29.4	44.1	56.4	45.0	31.3
50°	16.6	22.3	43.6	23.2	17.5
52.5°	11.4	12.8	29.9	13.3	11.8
55°	8.5	9.0	16.1	9.5	9.0
57.5°	6.6	7.1	8.5	7.1	6.6
60°	5.2	5.2	6.2	5.7	5.2
62.5°	3.8	3.8	4.3	3.8	3.8
65°	2.8	2.8	2.8	2.8	2.8
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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