

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



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: P790178

Luminaire Tested: LER6D20D010-EC6DR3020359024-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790178
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-EC6DR3020359024-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2543.7 lumens
Efficiency: N/A
Efficacy: 110.1 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

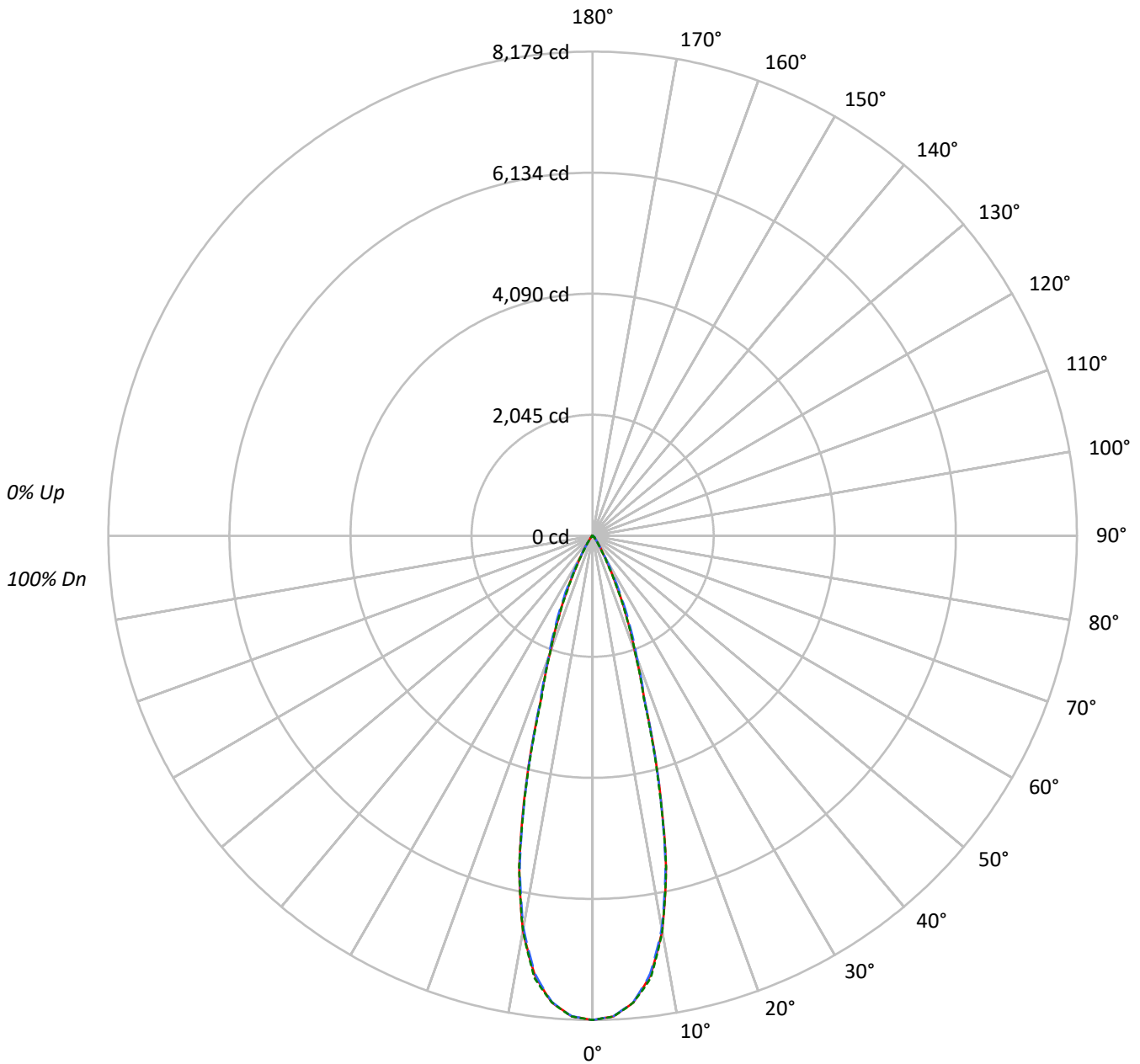


Downlight

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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°	626079	626079	626079
5°	608109	607402	608140
10°	526714	522998	526589
15°	343656	341809	340090
20°	170886	177297	170658
25°	86078	97066	84313
30°	34461	37555	30024
35°	15988	15306	12830
40°	6904	7664	6505
45°	4871	6040	4914
50°	1679	4394	1774
55°	961	1828	1014
60°	674	796	674
65°	435	435	435
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6040 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.3	28.3
10°-20°	1158.4	45.5
20°-30°	500.6	19.7
30°-40°	114.1	4.5
40°-50°	39.2	1.5
50°-60°	9.6	0.4
60°-70°	2.5	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°	2378.2	93.5
0°-40°	2492.3	98.0
0°-60°	2541.0	99.9
0°-90°	2543.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2543.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8179	8179	8179	8179	8179	
5°	7914	7907	7905	7922	7915	720
15°	4337	4284	4313	4299	4292	1161
25°	1019	1058	1149	1031	998	488
35°	171	175	164	163	137	116
45°	45	56	56	56	45	32
55°	7	8	14	8	8	7
65°	2	2	2	2	2	2
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°	8179.4	8179.4	8179.4	8179.4	8179.4
2.5°	8125.2	8119.6	8122.8	8126.8	8128.4
5°	7914.4	7906.8	7905.2	7921.6	7914.8
7.5°	7489.1	7478.3	7461.8	7499.2	7534.1
10°	6776.7	6764.7	6728.9	6746.6	6775.1
12.5°	5725.0	5686.0	5685.2	5741.4	5733.8
15°	4336.7	4284.5	4313.4	4299.3	4291.7
17.5°	2916.3	2896.2	2934.8	2923.1	2872.9
20°	2097.9	2103.1	2176.6	2139.6	2095.1
22.5°	1530.8	1549.7	1636.9	1541.7	1506.7
25°	1019.2	1057.8	1149.3	1030.9	998.3
27.5°	626.9	644.5	737.3	618.8	601.2
30°	389.9	381.1	424.9	364.6	339.7
32.5°	255.8	244.6	258.6	232.1	212.0
35°	171.1	174.7	163.8	162.6	137.3
37.5°	106.8	122.9	108.4	115.7	88.3
40°	69.1	89.2	76.7	84.7	65.1
42.5°	56.6	68.7	63.0	67.1	57.8
45°	45.0	55.8	55.8	55.8	45.4
47.5°	24.9	37.3	47.8	38.2	26.5
50°	14.1	18.9	36.9	19.7	14.9
52.5°	9.6	10.8	25.3	11.2	10.0
55°	7.2	7.6	13.7	8.0	7.6
57.5°	5.6	6.0	7.2	6.0	5.6
60°	4.4	4.4	5.2	4.8	4.4
62.5°	3.2	3.2	3.6	3.2	3.2
65°	2.4	2.4	2.4	2.4	2.4
67.5°	1.2	1.6	1.6	1.6	1.6
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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

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Scaled Data Report





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

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(END OF REPORT)