

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: P790198

Luminaire Tested: LER6D20D010-EC6DR3020359030-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790198
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-EC6DR3020359030-6LBS1MW
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3270.4 lumens
Efficiency: N/A
Efficacy: 141.6 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): 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

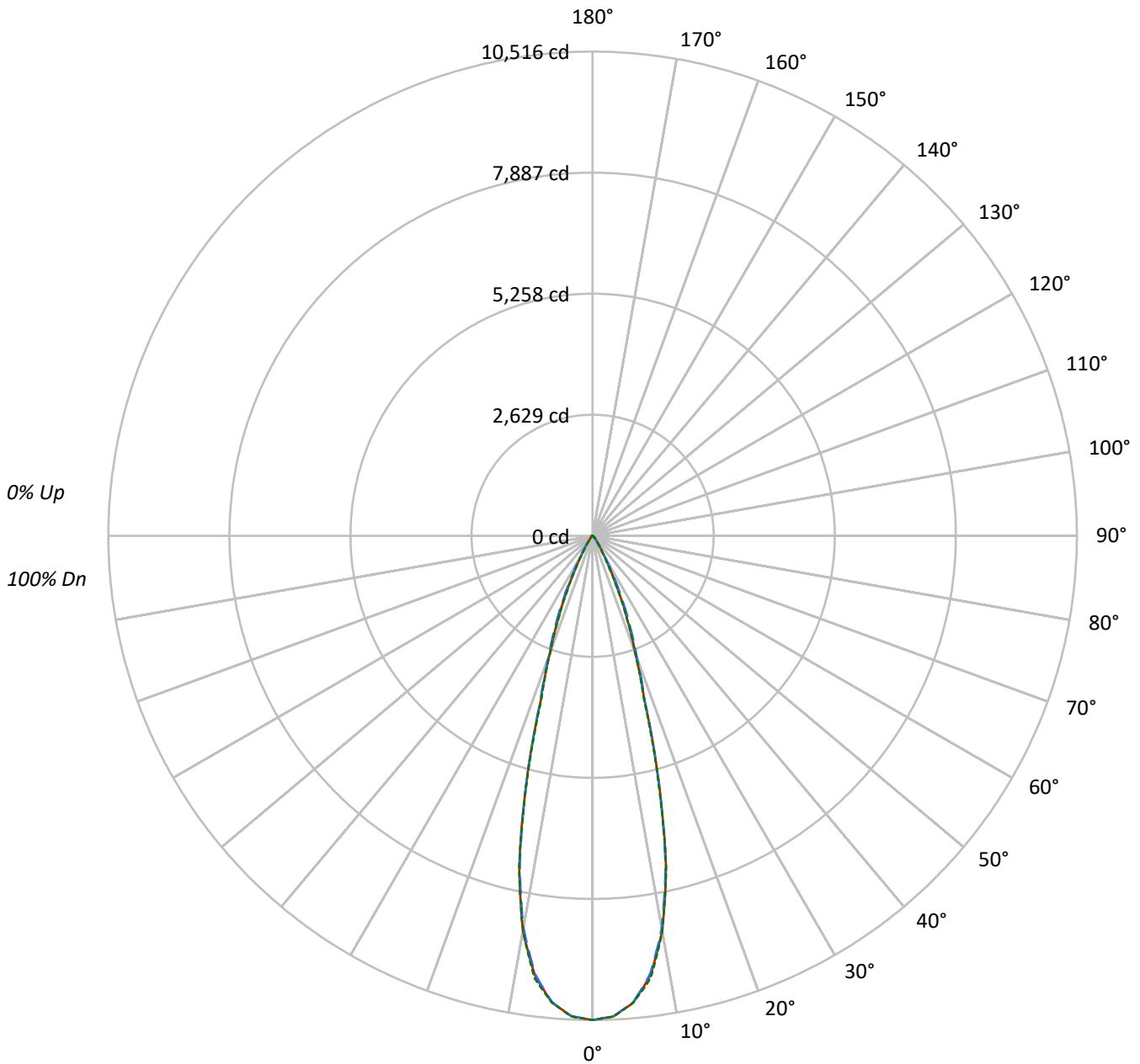


Downlight

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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	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°	804930	804930	804930
5°	781827	780913	781866
10°	677180	672408	677017
15°	441822	439453	437242
20°	219703	227946	219401
25°	110672	124801	108400
30°	44307	48276	38606
35°	20548	19688	16502
40°	8873	9852	8353
45°	6257	7772	6311
50°	2155	5656	2274
55°	1241	2349	1308
60°	873	1026	873
65°	561	561	561
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7772 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	924.7	28.3
10°-20°	1489.3	45.5
20°-30°	643.6	19.7
30°-40°	146.7	4.5
40°-50°	50.4	1.5
50°-60°	12.3	0.4
60°-70°	3.2	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°	3057.6	93.5
0°-40°	3204.2	98.0
0°-60°	3266.9	99.9
0°-90°	3270.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3270.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10516	10516	10516	10516	10516	
5°	10175	10166	10163	10185	10176	925
15°	5576	5508	5546	5528	5518	1493
25°	1310	1360	1478	1325	1284	627
35°	220	225	211	209	177	149
45°	58	72	72	72	58	41
55°	9	10	18	10	10	9
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°	10516.0	10516.0	10516.0	10516.0	10516.0
2.5°	10446.3	10439.1	10443.2	10448.4	10450.5
5°	10175.3	10165.5	10163.4	10184.6	10175.8
7.5°	9628.5	9614.6	9593.4	9641.4	9686.3
10°	8712.6	8697.1	8651.2	8673.9	8710.5
12.5°	7360.4	7310.3	7309.3	7381.6	7371.8
15°	5575.5	5508.4	5545.6	5527.5	5517.7
17.5°	3749.4	3723.6	3773.1	3758.2	3693.6
20°	2697.2	2703.9	2798.4	2750.9	2693.5
22.5°	1968.1	1992.4	2104.4	1982.1	1937.2
25°	1310.4	1359.9	1477.7	1325.3	1283.5
27.5°	805.9	828.7	947.9	795.6	772.9
30°	501.3	490.0	546.2	468.8	436.8
32.5°	328.9	314.4	332.5	298.4	272.6
35°	219.9	224.6	210.7	209.1	176.6
37.5°	137.3	158.0	139.4	148.7	113.6
40°	88.8	114.6	98.6	108.9	83.6
42.5°	72.8	88.3	81.1	86.2	74.3
45°	57.8	71.8	71.8	71.8	58.3
47.5°	32.0	48.0	61.4	49.0	34.1
50°	18.1	24.3	47.5	25.3	19.1
52.5°	12.4	13.9	32.5	14.5	12.9
55°	9.3	9.8	17.6	10.3	9.8
57.5°	7.2	7.7	9.3	7.7	7.2
60°	5.7	5.7	6.7	6.2	5.7
62.5°	4.1	4.1	4.6	4.1	4.1
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.5	2.1	2.1	2.1	2.1
70°	1.5	1.0	1.0	1.0	1.5
72.5°	1.0	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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