

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: P790202

Luminaire Tested: LER6D20D010-EC6DR3020359035-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790202
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-EC6DR3020359035-6LB DP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3078.0 lumens
Efficiency: N/A
Efficacy: 133.2 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

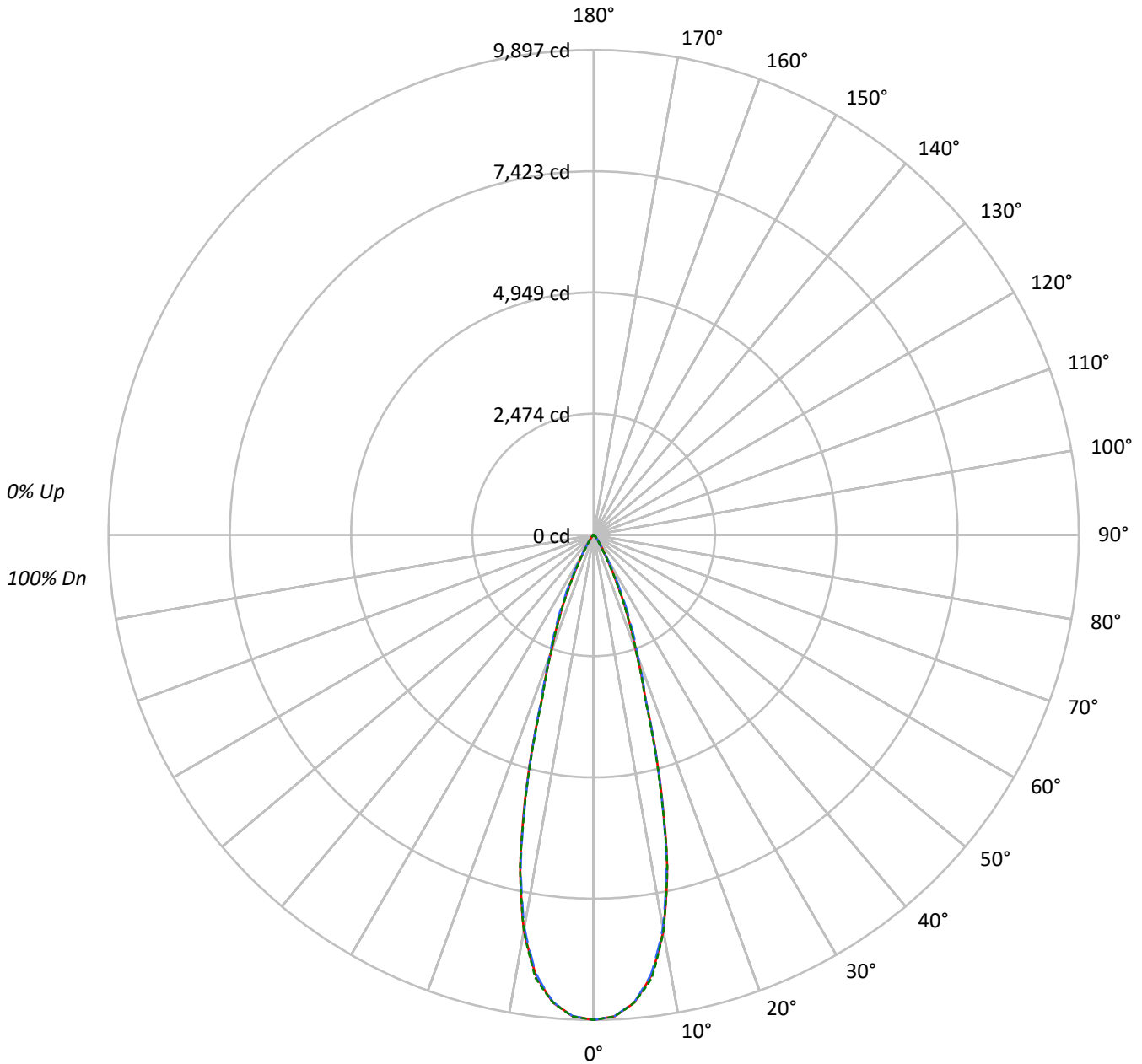
Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	757581	757581	757581
5°	735833	734973	735872
10°	637346	632854	637191
15°	415838	413604	411520
20°	206775	214530	206499
25°	104160	117453	102023
30°	41700	45439	36335
35°	19343	18530	15530
40°	8353	9273	7864
45°	5889	7307	5943
50°	2024	5323	2143
55°	1161	2202	1228
60°	811	964	811
65°	525	525	525
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: 7307 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	870.3	28.3
10°-20°	1401.7	45.5
20°-30°	605.7	19.7
30°-40°	138.0	4.5
40°-50°	47.4	1.5
50°-60°	11.6	0.4
60°-70°	3.0	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°	2877.7	93.5
0°-40°	3015.7	98.0
0°-60°	3074.7	99.9
0°-90°	3078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9897	9897	9897	9897	9897	
5°	9577	9568	9566	9586	9577	871
15°	5248	5184	5219	5202	5193	1405
25°	1233	1280	1391	1247	1208	590
35°	207	211	198	197	166	140
45°	54	68	68	68	55	39
55°	9	9	16	10	9	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°	9897.4	9897.4	9897.4	9897.4	9897.4
2.5°	9831.8	9825.0	9828.9	9833.8	9835.7
5°	9576.7	9567.5	9565.5	9585.5	9577.2
7.5°	9062.1	9049.0	9029.1	9074.3	9116.5
10°	8200.1	8185.5	8142.3	8163.6	8198.1
12.5°	6927.4	6880.3	6879.3	6947.3	6938.1
15°	5247.6	5184.4	5219.4	5202.4	5193.1
17.5°	3528.8	3504.5	3551.2	3537.1	3476.3
20°	2538.5	2544.8	2633.7	2589.0	2535.1
22.5°	1852.4	1875.2	1980.7	1865.5	1823.2
25°	1233.3	1279.9	1390.7	1247.4	1208.0
27.5°	758.5	779.9	892.2	748.8	727.4
30°	471.8	461.1	514.1	441.2	411.1
32.5°	309.5	295.9	312.9	280.9	256.6
35°	207.0	211.4	198.3	196.8	166.2
37.5°	129.3	148.7	131.2	139.9	106.9
40°	83.6	107.9	92.8	102.5	78.7
42.5°	68.5	83.1	76.3	81.2	70.0
45°	54.4	67.5	67.5	67.5	54.9
47.5°	30.1	45.2	57.8	46.2	32.1
50°	17.0	22.8	44.7	23.8	18.0
52.5°	11.7	13.1	30.6	13.6	12.1
55°	8.7	9.2	16.5	9.7	9.2
57.5°	6.8	7.3	8.7	7.3	6.8
60°	5.3	5.3	6.3	5.8	5.3
62.5°	3.9	3.9	4.4	3.9	3.9
65°	2.9	2.9	2.9	2.9	2.9
67.5°	1.5	1.9	1.9	1.9	1.9
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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