

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: P790034

Luminaire Tested: LER6D20D010-EC6DR1515309024-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER6D20D010-EC6DR1515309024-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1636.6 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
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

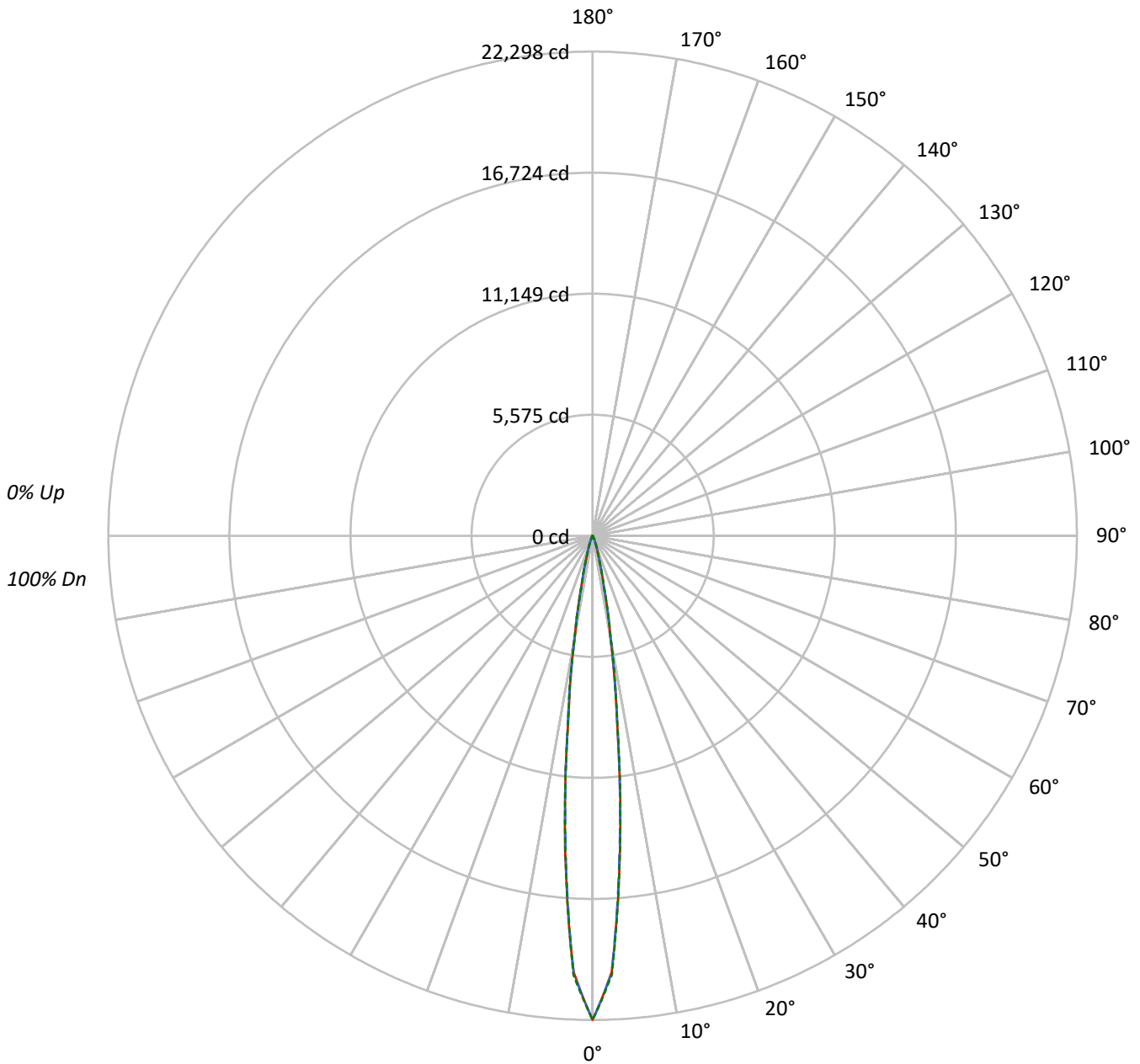


Downlight

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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					70					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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98					98			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96					96			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94					94			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93					93			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92					92			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90					90			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89					89			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88					88			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87					87			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86					86			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2509026	2509026	2509026
5°	1474422	1455326	1466840
10°	440048	443127	449911
15°	109457	111585	108145
20°	32745	37925	33441
25°	11545	14708	11693
30°	4238	5586	4313
35°	2128	2396	2055
40°	1342	1477	1342
45°	994	1057	994
50°	786	786	786
55°	654	654	654
60°	534	534	534
65°	407	407	407
70°	344	344	344
75°	212	212	287
80°	150	150	150
85°	75	75	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1057 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1061.5	64.9
10°-20°	436.6	26.7
20°-30°	86.7	5.3
30°-40°	21.6	1.3
40°-50°	11.4	0.7
50°-60°	8.4	0.5
60°-70°	6.0	0.4
70°-80°	3.4	0.2
80°-90°	1.0	0.1
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°	1584.8	96.8
0°-40°	1606.4	98.2
0°-60°	1626.2	99.4
0°-90°	1636.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1636.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22298	22298	22298	22298	22298	
5°	14508	14359	14320	14419	14433	1059
15°	1260	1284	1285	1262	1245	432
25°	148	168	189	167	150	78
35°	29	31	33	31	28	20
45°	14	14	15	14	14	11
55°	9	9	9	9	9	8
65°	6	6	6	6	6	6
75°	3	3	3	3	4	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22298.5	22298.5	22298.5	22298.5	22298.5
2.5°	20114.1	20131.1	20137.7	20157.6	20231.2
5°	14507.9	14358.7	14320.0	14419.2	14433.3
7.5°	8593.9	8624.1	8734.6	8759.1	8670.4
10°	4716.1	4754.8	4749.1	4783.1	4821.8
12.5°	2411.8	2381.6	2372.2	2410.9	2357.1
15°	1260.2	1283.8	1284.7	1262.1	1245.1
17.5°	677.8	705.1	750.5	713.6	657.0
20°	400.2	424.8	463.5	433.3	408.7
22.5°	247.3	267.1	294.5	270.9	251.1
25°	148.2	168.0	188.8	167.1	150.1
27.5°	87.8	104.8	118.0	103.8	86.8
30°	56.6	66.1	74.6	65.1	57.6
32.5°	39.6	43.4	47.2	43.4	39.6
35°	29.3	31.2	33.0	31.2	28.3
37.5°	22.7	24.5	25.5	23.6	21.7
40°	18.9	19.8	20.8	19.8	18.9
42.5°	16.0	17.0	17.0	17.0	16.0
45°	14.2	14.2	15.1	14.2	14.2
47.5°	12.3	12.3	13.2	12.3	12.3
50°	11.3	11.3	11.3	11.3	11.3
52.5°	10.4	10.4	10.4	10.4	10.4
55°	9.4	9.4	9.4	9.4	9.4
57.5°	8.5	8.5	8.5	8.5	8.5
60°	7.6	7.6	7.6	7.6	7.6
62.5°	6.6	6.6	6.6	6.6	6.6
65°	5.7	5.7	5.7	5.7	5.7
67.5°	5.7	5.7	5.7	5.7	5.7
70°	4.7	4.7	4.7	4.7	4.7
72.5°	3.8	3.8	3.8	3.8	3.8
75°	2.8	2.8	2.8	2.8	3.8
77.5°	2.8	2.8	2.8	2.8	2.8
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9
85°	0.9	0.9	0.9	0.9	0.9
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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