

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: P790042

Luminaire Tested: LER6D20D010-EC6DR1515309027-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790042
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-EC6DR1515309027-6LBDDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1816.7 lumens
Efficiency: N/A
Efficacy: 78.6 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

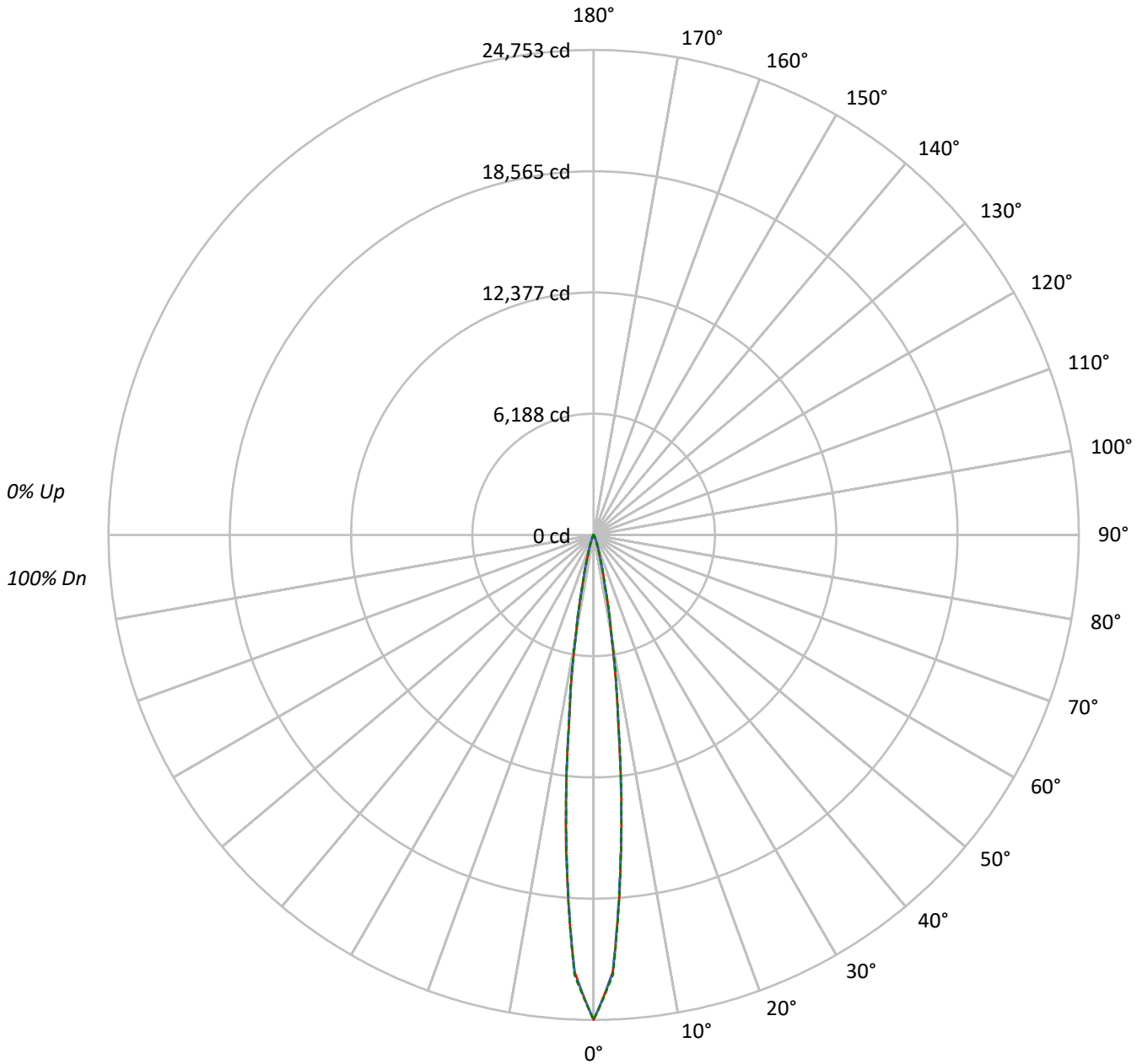


Downlight

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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									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°	2785218	2785218	2785218
5°	1636723	1615534	1628308
10°	488484	491908	499438
15°	121504	123875	120054
20°	36354	42098	37123
25°	12815	16328	12978
30°	4710	6200	4785
35°	2360	2665	2280
40°	1491	1640	1491
45°	1099	1176	1099
50°	876	876	876
55°	731	731	731
60°	590	590	590
65°	450	450	450
70°	380	380	380
75°	234	234	317
80°	166	166	166
85°	83	83	83

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1176 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1178.3	64.9
10°-20°	484.7	26.7
20°-30°	96.3	5.3
30°-40°	24.0	1.3
40°-50°	12.6	0.7
50°-60°	9.4	0.5
60°-70°	6.6	0.4
70°-80°	3.7	0.2
80°-90°	1.1	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°	1759.2	96.8
0°-40°	1783.3	98.2
0°-60°	1805.3	99.4
0°-90°	1816.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1816.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24753	24753	24753	24753	24753	
5°	16105	15939	15896	16006	16022	1176
15°	1399	1425	1426	1401	1382	480
25°	164	186	210	186	167	86
35°	32	35	37	35	31	22
45°	16	16	17	16	16	12
55°	10	10	10	10	10	9
65°	6	6	6	6	6	7
75°	3	3	3	3	4	4
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°	24753.1	24753.1	24753.1	24753.1	24753.1
2.5°	22328.3	22347.1	22354.5	22376.5	22458.2
5°	16104.9	15939.3	15896.4	16006.4	16022.1
7.5°	9539.9	9573.4	9696.0	9723.3	9624.8
10°	5235.2	5278.2	5271.9	5309.6	5352.6
12.5°	2677.3	2643.8	2633.3	2676.3	2616.6
15°	1398.9	1425.1	1426.2	1401.0	1382.2
17.5°	752.4	782.8	833.1	792.2	729.3
20°	444.3	471.5	514.5	481.0	453.7
22.5°	274.5	296.6	326.9	300.7	278.7
25°	164.5	186.5	209.6	185.5	166.6
27.5°	97.5	116.3	131.0	115.3	96.4
30°	62.9	73.4	82.8	72.3	63.9
32.5°	44.0	48.2	52.4	48.2	44.0
35°	32.5	34.6	36.7	34.6	31.4
37.5°	25.1	27.2	28.3	26.2	24.1
40°	21.0	22.0	23.1	22.0	21.0
42.5°	17.8	18.9	18.9	18.9	17.8
45°	15.7	15.7	16.8	15.7	15.7
47.5°	13.6	13.6	14.7	13.6	13.6
50°	12.6	12.6	12.6	12.6	12.6
52.5°	11.5	11.5	11.5	11.5	11.5
55°	10.5	10.5	10.5	10.5	10.5
57.5°	9.4	9.4	9.4	9.4	9.4
60°	8.4	8.4	8.4	8.4	8.4
62.5°	7.3	7.3	7.3	7.3	7.3
65°	6.3	6.3	6.3	6.3	6.3
67.5°	6.3	6.3	6.3	6.3	6.3
70°	5.2	5.2	5.2	5.2	5.2
72.5°	4.2	4.2	4.2	4.2	4.2
75°	3.1	3.1	3.1	3.1	4.2
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.0	1.0	1.0	1.0	1.0
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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