

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: P790052

Luminaire Tested: LER6D20D010-EC6DR1515309030-6LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790052
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-EC6DR1515309030-6LBS1H
Description: 6 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2038.8 lumens
Efficiency: N/A
Efficacy: 88.3 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

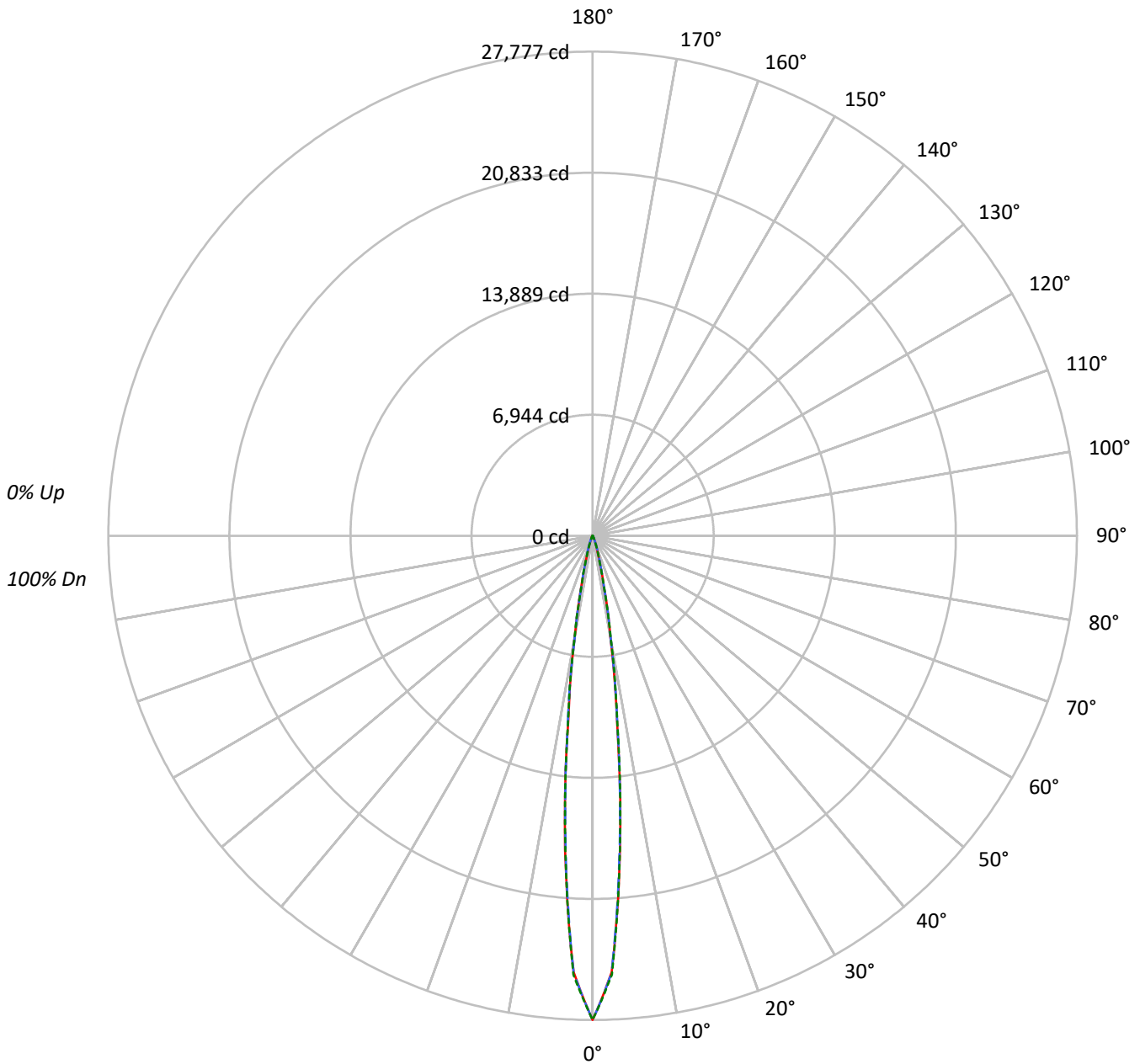


Downlight

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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	87	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°	3125512	3125512	3125512
5°	1836699	1812917	1827257
10°	548163	552008	560452
15°	136348	139006	134715
20°	40797	47244	41664
25°	14380	18322	14567
30°	5287	6956	5369
35°	2651	2992	2563
40°	1669	1839	1669
45°	1232	1316	1232
50°	980	980	980
55°	821	821	821
60°	660	660	660
65°	507	507	507
70°	432	432	432
75°	265	265	355
80°	189	189	189
85°	100	100	100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1316 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1322.3	64.9
10°-20°	543.9	26.7
20°-30°	108.0	5.3
30°-40°	27.0	1.3
40°-50°	14.2	0.7
50°-60°	10.5	0.5
60°-70°	7.4	0.4
70°-80°	4.2	0.2
80°-90°	1.3	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°	1974.2	96.8
0°-40°	2001.1	98.2
0°-60°	2025.8	99.4
0°-90°	2038.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2038.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27777	27777	27777	27777	27777	
5°	18073	17887	17839	17962	17980	1320
15°	1570	1599	1600	1572	1551	538
25°	185	209	235	208	187	97
35°	36	39	41	39	35	25
45°	18	18	19	18	18	14
55°	12	12	12	12	12	11
65°	7	7	7	7	7	7
75°	4	4	4	4	5	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°	27777.4	27777.4	27777.4	27777.4	27777.4
2.5°	25056.3	25077.5	25085.7	25110.4	25202.1
5°	18072.6	17886.8	17838.6	17962.0	17979.7
7.5°	10705.5	10743.1	10880.7	10911.3	10800.7
10°	5874.8	5923.1	5916.0	5958.3	6006.5
12.5°	3004.5	2966.8	2955.1	3003.3	2936.2
15°	1569.8	1599.2	1600.4	1572.2	1551.0
17.5°	844.3	878.4	934.8	889.0	818.4
20°	498.6	529.2	577.4	539.7	509.2
22.5°	308.1	332.8	366.9	337.5	312.8
25°	184.6	209.3	235.2	208.1	187.0
27.5°	109.4	130.5	147.0	129.4	108.2
30°	70.6	82.3	92.9	81.1	71.7
32.5°	49.4	54.1	58.8	54.1	49.4
35°	36.5	38.8	41.2	38.8	35.3
37.5°	28.2	30.6	31.7	29.4	27.0
40°	23.5	24.7	25.9	24.7	23.5
42.5°	20.0	21.2	21.2	21.2	20.0
45°	17.6	17.6	18.8	17.6	17.6
47.5°	15.3	15.3	16.5	15.3	15.3
50°	14.1	14.1	14.1	14.1	14.1
52.5°	12.9	12.9	12.9	12.9	12.9
55°	11.8	11.8	11.8	11.8	11.8
57.5°	10.6	10.6	10.6	10.6	10.6
60°	9.4	9.4	9.4	9.4	9.4
62.5°	8.2	8.2	8.2	8.2	8.2
65°	7.1	7.1	7.1	7.1	7.1
67.5°	7.1	7.1	7.1	7.1	7.1
70°	5.9	5.9	5.9	5.9	5.9
72.5°	4.7	4.7	4.7	4.7	4.7
75°	3.5	3.5	3.5	3.5	4.7
77.5°	3.5	3.5	3.5	3.5	3.5
80°	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.4	2.4	2.4	2.4
85°	1.2	1.2	1.2	1.2	1.2
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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