

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: P789431

Luminaire Tested: LER6D15D010-EC6DR1515309027-6LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P789431
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: LER6D15D010-EC6DR1515309027-6LBDP1H
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1366.0 lumens
Efficiency: N/A
Efficacy: 86.5 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): 15.8
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

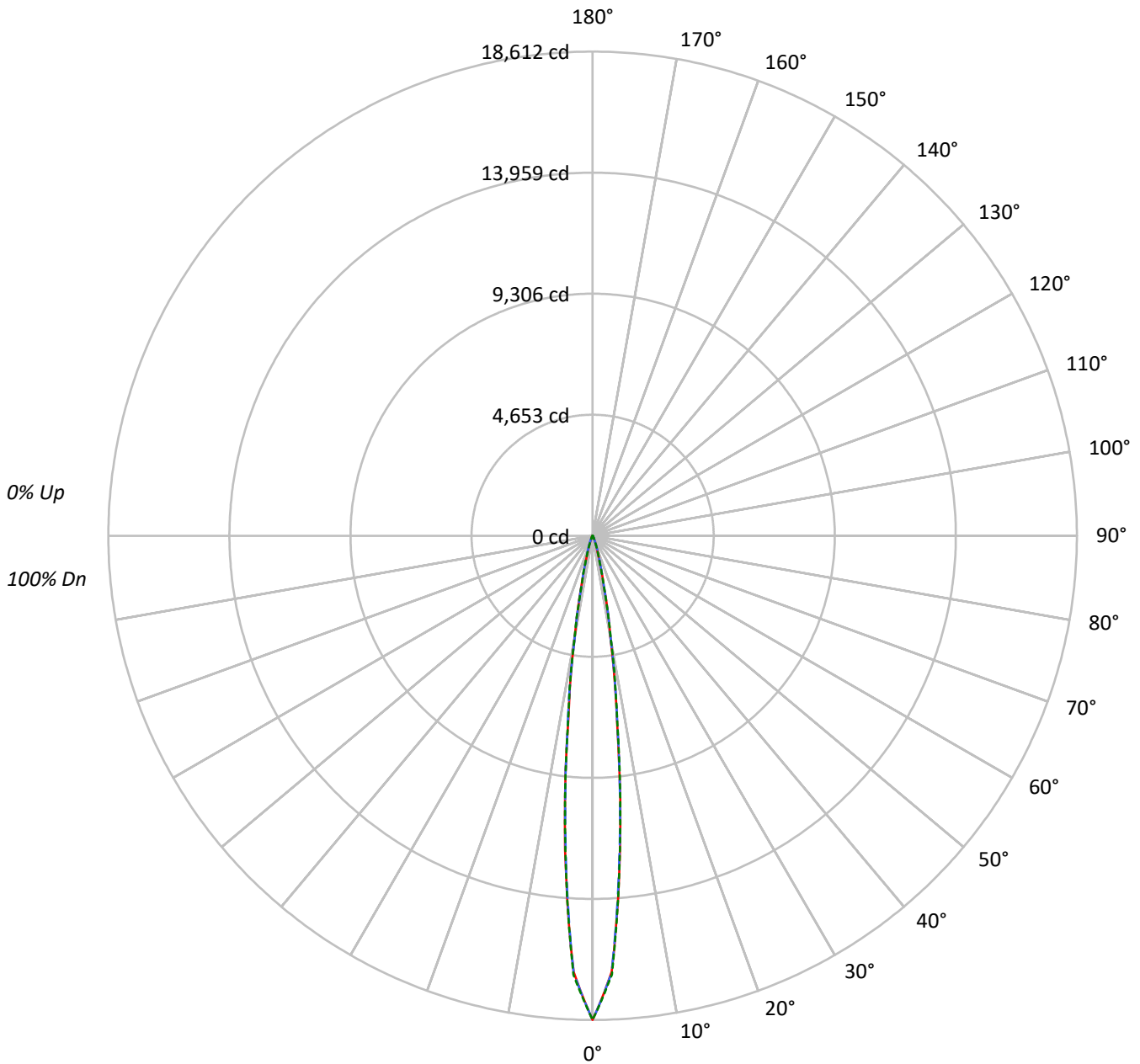


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2094165	2094165	2094165
5°	1230624	1214689	1224303
10°	367287	369862	375516
15°	91356	93137	90262
20°	27337	31657	27918
25°	9636	12277	9761
30°	3542	4658	3602
35°	1772	2004	1714
40°	1122	1229	1122
45°	826	882	826
50°	661	661	661
55°	550	550	550
60°	442	442	442
65°	335	335	335
70°	285	285	285
75°	181	181	242
80°	126	126	126
85°	66	66	66

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 882 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	885.9	64.9
10°-20°	364.4	26.7
20°-30°	72.4	5.3
30°-40°	18.1	1.3
40°-50°	9.5	0.7
50°-60°	7.1	0.5
60°-70°	4.9	0.4
70°-80°	2.9	0.2
80°-90°	0.9	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°	1322.7	96.8
0°-40°	1340.8	98.2
0°-60°	1357.4	99.4
0°-90°	1366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1366.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18612	18612	18612	18612	18612	
5°	12109	11984	11952	12035	12047	884
15°	1052	1072	1072	1053	1039	361
25°	124	140	158	140	125	65
35°	24	26	28	26	24	17
45°	12	12	13	12	12	9
55°	8	8	8	8	8	7
65°	5	5	5	5	5	5
75°	2	2	2	2	3	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°	18611.5	18611.5	18611.5	18611.5	18611.5
2.5°	16788.3	16802.5	16808.0	16824.5	16886.0
5°	12109.0	11984.5	11952.2	12035.0	12046.8
7.5°	7172.9	7198.1	7290.3	7310.8	7236.7
10°	3936.3	3968.6	3963.9	3992.2	4024.5
12.5°	2013.0	1987.8	1980.0	2012.3	1967.4
15°	1051.8	1071.5	1072.3	1053.4	1039.2
17.5°	565.7	588.6	626.4	595.6	548.4
20°	334.1	354.5	386.9	361.6	341.2
22.5°	206.4	223.0	245.8	226.1	209.6
25°	123.7	140.2	157.6	139.5	125.3
27.5°	73.3	87.5	98.5	86.7	72.5
30°	47.3	55.2	62.2	54.4	48.1
32.5°	33.1	36.2	39.4	36.2	33.1
35°	24.4	26.0	27.6	26.0	23.6
37.5°	18.9	20.5	21.3	19.7	18.1
40°	15.8	16.5	17.3	16.5	15.8
42.5°	13.4	14.2	14.2	14.2	13.4
45°	11.8	11.8	12.6	11.8	11.8
47.5°	10.2	10.2	11.0	10.2	10.2
50°	9.5	9.5	9.5	9.5	9.5
52.5°	8.7	8.7	8.7	8.7	8.7
55°	7.9	7.9	7.9	7.9	7.9
57.5°	7.1	7.1	7.1	7.1	7.1
60°	6.3	6.3	6.3	6.3	6.3
62.5°	5.5	5.5	5.5	5.5	5.5
65°	4.7	4.7	4.7	4.7	4.7
67.5°	4.7	4.7	4.7	4.7	4.7
70°	3.9	3.9	3.9	3.9	3.9
72.5°	3.2	3.2	3.2	3.2	3.2
75°	2.4	2.4	2.4	2.4	3.2
77.5°	2.4	2.4	2.4	2.4	2.4
80°	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8
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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