

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: P787557

Luminaire Tested: LER6D05D010-EC6DR150210IC9024-6LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P787557
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: LER6D05D010-EC6DR150210IC9024-6LBS1LI
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 643.5 lumens
Efficiency: N/A
Efficacy: 85.8 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

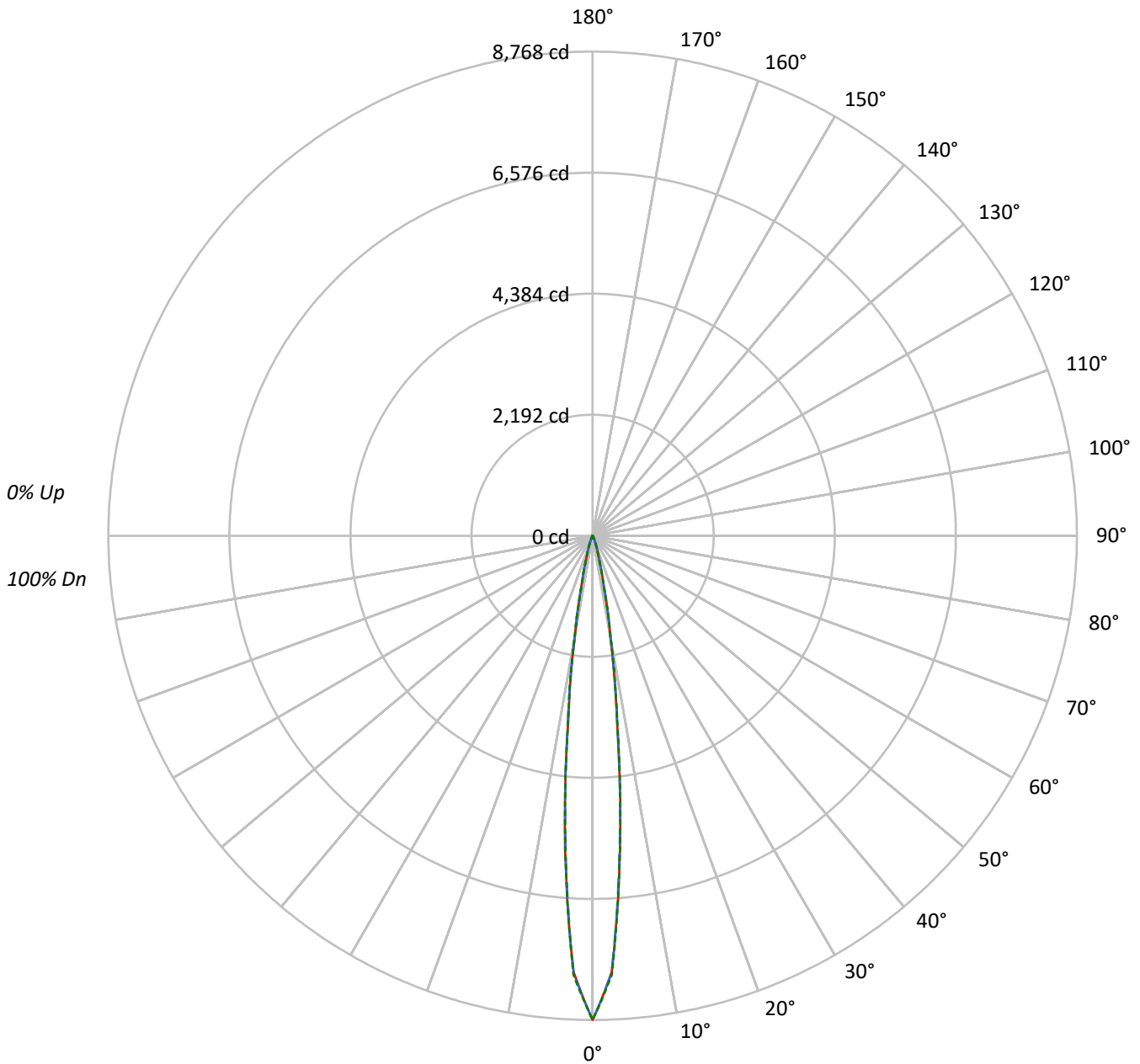
Input Watts (W): 7.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	986597	986597	986597
5°	579773	572262	576795
10°	173039	174243	176911
15°	43038	43880	42525
20°	12879	14916	13149
25°	4542	5780	4596
30°	1670	2194	1692
35°	835	944	806
40°	526	582	526
45°	392	413	392
50°	313	313	313
55°	258	258	258
60°	211	211	211
65°	157	157	157
70°	139	139	139
75°	83	83	113
80°	55	55	55
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 413 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.4	64.9
10°-20°	171.7	26.7
20°-30°	34.1	5.3
30°-40°	8.5	1.3
40°-50°	4.5	0.7
50°-60°	3.3	0.5
60°-70°	2.3	0.4
70°-80°	1.3	0.2
80°-90°	0.4	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°	623.2	96.8
0°-40°	631.7	98.2
0°-60°	639.5	99.4
0°-90°	643.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	643.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8768	8768	8768	8768	8768	
5°	5705	5646	5631	5670	5676	417
15°	496	505	505	496	490	170
25°	58	66	74	66	59	31
35°	12	12	13	12	11	8
45°	6	6	6	6	6	4
55°	4	4	4	4	4	3
65°	2	2	2	2	2	2
75°	1	1	1	1	2	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8768.2	8768.2	8768.2	8768.2	8768.2
2.5°	7909.3	7915.9	7918.5	7926.3	7955.3
5°	5704.8	5646.1	5630.9	5669.9	5675.5
7.5°	3379.3	3391.2	3434.6	3444.2	3409.4
10°	1854.5	1869.7	1867.4	1880.8	1896.0
12.5°	948.4	936.5	932.8	948.0	926.9
15°	495.5	504.8	505.2	496.3	489.6
17.5°	266.5	277.3	295.1	280.6	258.3
20°	157.4	167.0	182.3	170.4	160.7
22.5°	97.3	105.0	115.8	106.5	98.7
25°	58.3	66.1	74.2	65.7	59.0
27.5°	34.5	41.2	46.4	40.8	34.1
30°	22.3	26.0	29.3	25.6	22.6
32.5°	15.6	17.1	18.6	17.1	15.6
35°	11.5	12.2	13.0	12.2	11.1
37.5°	8.9	9.7	10.0	9.3	8.5
40°	7.4	7.8	8.2	7.8	7.4
42.5°	6.3	6.7	6.7	6.7	6.3
45°	5.6	5.6	5.9	5.6	5.6
47.5°	4.8	4.8	5.2	4.8	4.8
50°	4.5	4.5	4.5	4.5	4.5
52.5°	4.1	4.1	4.1	4.1	4.1
55°	3.7	3.7	3.7	3.7	3.7
57.5°	3.3	3.3	3.3	3.3	3.3
60°	3.0	3.0	3.0	3.0	3.0
62.5°	2.6	2.6	2.6	2.6	2.6
65°	2.2	2.2	2.2	2.2	2.2
67.5°	2.2	2.2	2.2	2.2	2.2
70°	1.9	1.9	1.9	1.9	1.9
72.5°	1.5	1.5	1.5	1.5	1.5
75°	1.1	1.1	1.1	1.1	1.5
77.5°	1.1	1.1	1.1	1.1	1.1
80°	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.4	0.4	0.4	0.4	0.4
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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