

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: P787559

Luminaire Tested: LER6D05D010-EC6DR150210IC9027-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P787559
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-EC6DR150210IC9027-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 604.0 lumens
Efficiency: N/A
Efficacy: 80.5 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

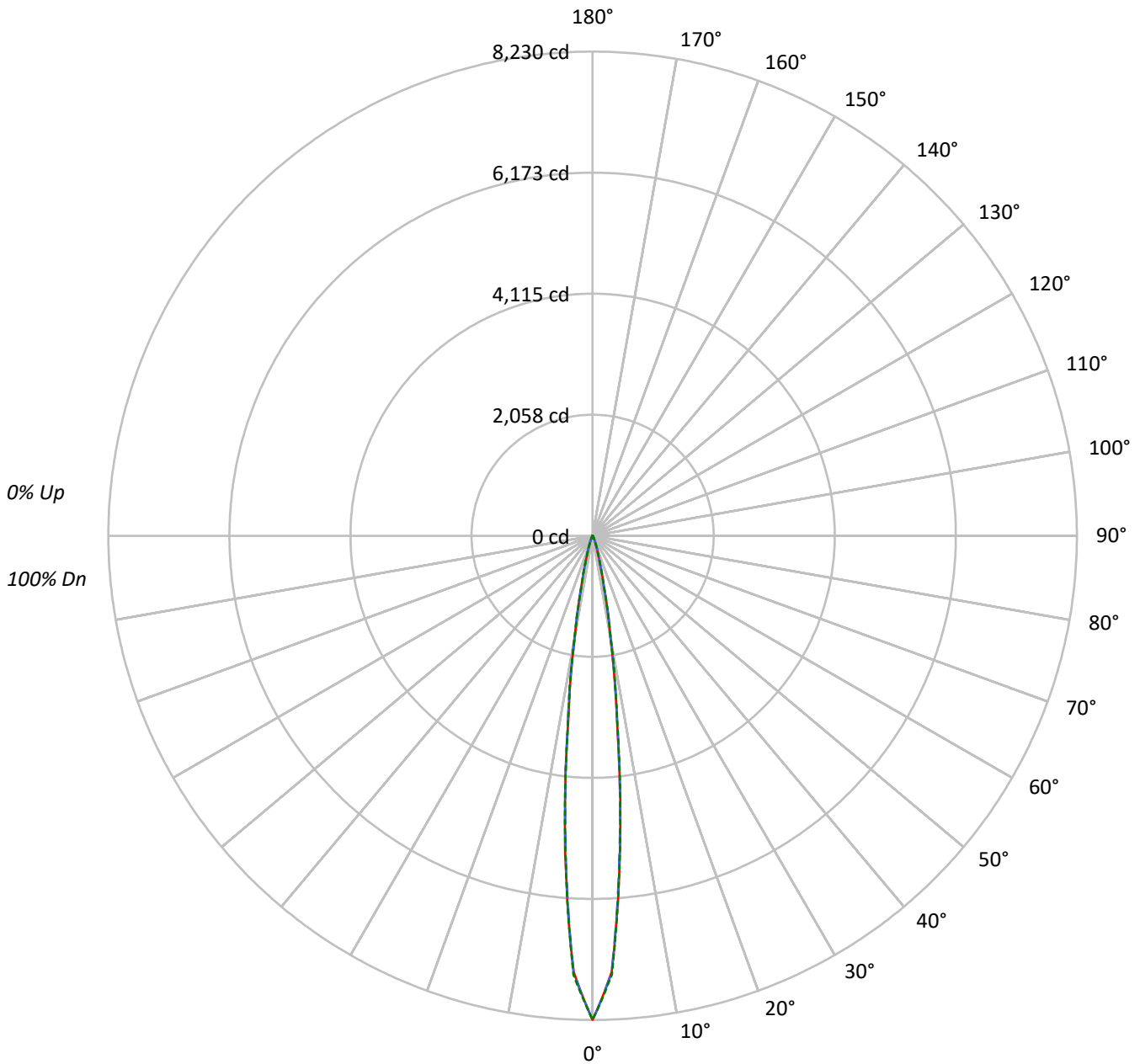
Input Watts (W): 7.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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	99	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	99	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	88	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°	926005	926005	926005
5°	544162	537119	541367
10°	162411	163550	166050
15°	40397	41188	39911
20°	12085	14000	12347
25°	4261	5430	4316
30°	1565	2059	1595
35°	784	886	763
40°	497	547	497
45°	364	392	364
50°	292	292	292
55°	244	244	244
60°	197	197	197
65°	150	150	150
70°	124	124	124
75°	76	76	106
80°	55	55	55
85°	25	25	25

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 392 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.8	64.9
10°-20°	161.1	26.7
20°-30°	32.0	5.3
30°-40°	8.0	1.3
40°-50°	4.2	0.7
50°-60°	3.1	0.5
60°-70°	2.2	0.4
70°-80°	1.2	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°	584.9	96.8
0°-40°	592.9	98.2
0°-60°	600.2	99.4
0°-90°	604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	604.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8230	8230	8230	8230	8230	
5°	5354	5299	5285	5322	5327	391
15°	465	474	474	466	460	159
25°	55	62	70	62	55	29
35°	11	12	12	12	10	7
45°	5	5	6	5	5	4
55°	4	4	4	4	4	3
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8229.7	8229.7	8229.7	8229.7	8229.7
2.5°	7423.5	7429.8	7432.2	7439.6	7466.7
5°	5354.4	5299.4	5285.1	5321.7	5326.9
7.5°	3171.8	3182.9	3223.7	3232.7	3200.0
10°	1740.6	1754.9	1752.8	1765.3	1779.6
12.5°	890.1	879.0	875.5	889.8	869.9
15°	465.1	473.8	474.2	465.8	459.5
17.5°	250.1	260.2	277.0	263.4	242.5
20°	147.7	156.8	171.1	159.9	150.9
22.5°	91.3	98.6	108.7	100.0	92.7
25°	54.7	62.0	69.7	61.7	55.4
27.5°	32.4	38.7	43.5	38.3	32.1
30°	20.9	24.4	27.5	24.0	21.3
32.5°	14.6	16.0	17.4	16.0	14.6
35°	10.8	11.5	12.2	11.5	10.5
37.5°	8.4	9.1	9.4	8.7	8.0
40°	7.0	7.3	7.7	7.3	7.0
42.5°	5.9	6.3	6.3	6.3	5.9
45°	5.2	5.2	5.6	5.2	5.2
47.5°	4.5	4.5	4.9	4.5	4.5
50°	4.2	4.2	4.2	4.2	4.2
52.5°	3.8	3.8	3.8	3.8	3.8
55°	3.5	3.5	3.5	3.5	3.5
57.5°	3.1	3.1	3.1	3.1	3.1
60°	2.8	2.8	2.8	2.8	2.8
62.5°	2.4	2.4	2.4	2.4	2.4
65°	2.1	2.1	2.1	2.1	2.1
67.5°	2.1	2.1	2.1	2.1	2.1
70°	1.7	1.7	1.7	1.7	1.7
72.5°	1.4	1.4	1.4	1.4	1.4
75°	1.0	1.0	1.0	1.0	1.4
77.5°	1.0	1.0	1.0	1.0	1.0
80°	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.3	0.3	0.3	0.3	0.3
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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