

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: P787583

Luminaire Tested: LER6D05D010-EC6DR150210IC9040-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P787583
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-EC6DR150210IC9040-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 676.7 lumens
Efficiency: N/A
Efficacy: 90.2 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

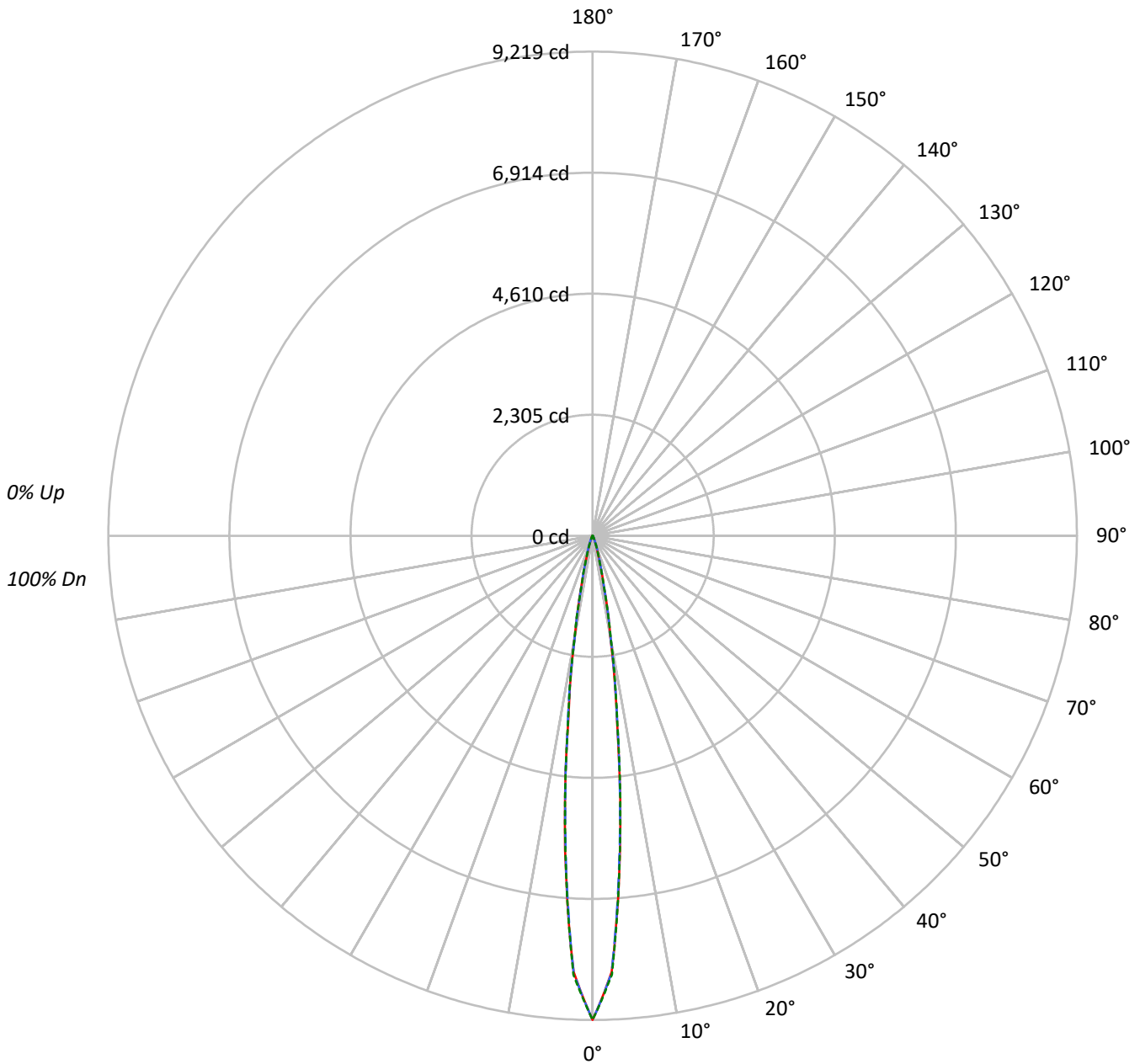


Downlight

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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	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°	1037299	1037299	1037299
5°	609570	601674	606430
10°	181931	183200	186009
15°	45252	46130	44714
20°	13542	15677	13828
25°	4775	6084	4838
30°	1752	2306	1782
35°	879	995	850
40°	554	611	554
45°	413	434	413
50°	327	327	327
55°	271	271	271
60°	218	218	218
65°	164	164	164
70°	146	146	146
75°	91	91	121
80°	63	63	63
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 434 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.8	64.9
10°-20°	180.5	26.7
20°-30°	35.9	5.3
30°-40°	9.0	1.3
40°-50°	4.7	0.7
50°-60°	3.5	0.5
60°-70°	2.4	0.4
70°-80°	1.4	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°	655.2	96.8
0°-40°	664.1	98.2
0°-60°	672.3	99.4
0°-90°	676.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	676.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9219	9219	9219	9219	9219	
5°	5998	5936	5920	5961	5967	438
15°	521	531	531	522	515	179
25°	61	70	78	69	62	32
35°	12	13	14	13	12	8
45°	6	6	6	6	6	5
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°	9218.8	9218.8	9218.8	9218.8	9218.8
2.5°	8315.7	8322.8	8325.5	8333.7	8364.1
5°	5998.0	5936.3	5920.3	5961.3	5967.1
7.5°	3553.0	3565.5	3611.1	3621.3	3584.6
10°	1949.8	1965.8	1963.4	1977.5	1993.5
12.5°	997.1	984.6	980.7	996.7	974.5
15°	521.0	530.8	531.1	521.8	514.8
17.5°	280.2	291.5	310.3	295.0	271.6
20°	165.5	175.6	191.6	179.1	169.0
22.5°	102.2	110.4	121.8	112.0	103.8
25°	61.3	69.5	78.1	69.1	62.1
27.5°	36.3	43.3	48.8	42.9	35.9
30°	23.4	27.3	30.8	26.9	23.8
32.5°	16.4	18.0	19.5	18.0	16.4
35°	12.1	12.9	13.7	12.9	11.7
37.5°	9.4	10.1	10.5	9.8	9.0
40°	7.8	8.2	8.6	8.2	7.8
42.5°	6.6	7.0	7.0	7.0	6.6
45°	5.9	5.9	6.2	5.9	5.9
47.5°	5.1	5.1	5.5	5.1	5.1
50°	4.7	4.7	4.7	4.7	4.7
52.5°	4.3	4.3	4.3	4.3	4.3
55°	3.9	3.9	3.9	3.9	3.9
57.5°	3.5	3.5	3.5	3.5	3.5
60°	3.1	3.1	3.1	3.1	3.1
62.5°	2.7	2.7	2.7	2.7	2.7
65°	2.3	2.3	2.3	2.3	2.3
67.5°	2.3	2.3	2.3	2.3	2.3
70°	2.0	2.0	2.0	2.0	2.0
72.5°	1.6	1.6	1.6	1.6	1.6
75°	1.2	1.2	1.2	1.2	1.6
77.5°	1.2	1.2	1.2	1.2	1.2
80°	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8
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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