

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: P739877

Luminaire Tested: LD4D05D010-EU4DR150210IC9035-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739877
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: LD4D05D010-EU4DR150210IC9035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 633.1 lumens
Efficiency: N/A
Efficacy: 84.4 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



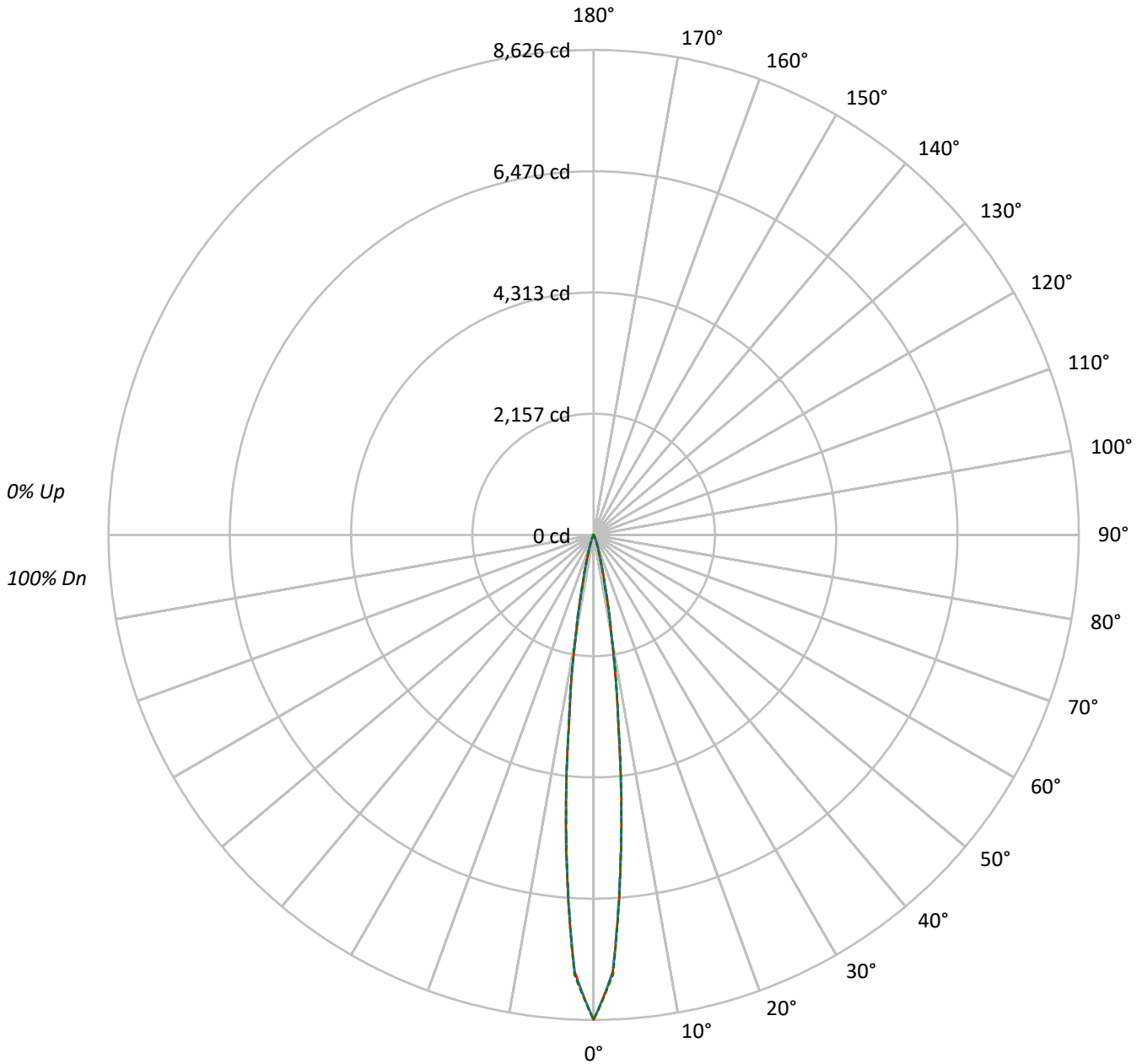
Downlight



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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°	970563	970563	970563
5°	570352	562963	567425
10°	170221	171415	174037
15°	42343	43168	41830
20°	12666	14671	12936
25°	4464	5687	4526
30°	1640	2157	1670
35°	821	930	799
40°	518	568	518
45°	385	406	385
50°	306	306	306
55°	258	258	258
60°	204	204	204
65°	157	157	157
70°	132	132	132
75°	83	83	113
80°	55	55	55
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 406 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.6	64.9
10°-20°	168.9	26.7
20°-30°	33.5	5.3
30°-40°	8.4	1.3
40°-50°	4.4	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°	613.0	96.8
0°-40°	621.4	98.2
0°-60°	629.1	99.4
0°-90°	633.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	633.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8626	8626	8626	8626	8626	
5°	5612	5554	5539	5578	5583	410
15°	488	497	497	488	482	167
25°	57	65	73	65	58	30
35°	11	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°	8625.7	8625.7	8625.7	8625.7	8625.7
2.5°	7780.8	7787.3	7789.9	7797.6	7826.0
5°	5612.1	5554.4	5539.4	5577.8	5583.3
7.5°	3324.4	3336.1	3378.8	3388.3	3354.0
10°	1824.3	1839.3	1837.1	1850.3	1865.2
12.5°	933.0	921.3	917.6	932.6	911.8
15°	487.5	496.6	497.0	488.2	481.6
17.5°	262.2	272.8	290.3	276.1	254.1
20°	154.8	164.3	179.3	167.6	158.1
22.5°	95.7	103.3	113.9	104.8	97.1
25°	57.3	65.0	73.0	64.6	58.1
27.5°	34.0	40.5	45.6	40.2	33.6
30°	21.9	25.6	28.8	25.2	22.3
32.5°	15.3	16.8	18.3	16.8	15.3
35°	11.3	12.1	12.8	12.1	11.0
37.5°	8.8	9.5	9.9	9.1	8.4
40°	7.3	7.7	8.0	7.7	7.3
42.5°	6.2	6.6	6.6	6.6	6.2
45°	5.5	5.5	5.8	5.5	5.5
47.5°	4.7	4.7	5.1	4.7	4.7
50°	4.4	4.4	4.4	4.4	4.4
52.5°	4.0	4.0	4.0	4.0	4.0
55°	3.7	3.7	3.7	3.7	3.7
57.5°	3.3	3.3	3.3	3.3	3.3
60°	2.9	2.9	2.9	2.9	2.9
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°	1.8	1.8	1.8	1.8	1.8
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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