

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: P751428

Luminaire Tested: LD4D65D010-EU4DR3055659024-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D65D010-EU4DR3055659024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4482.9 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

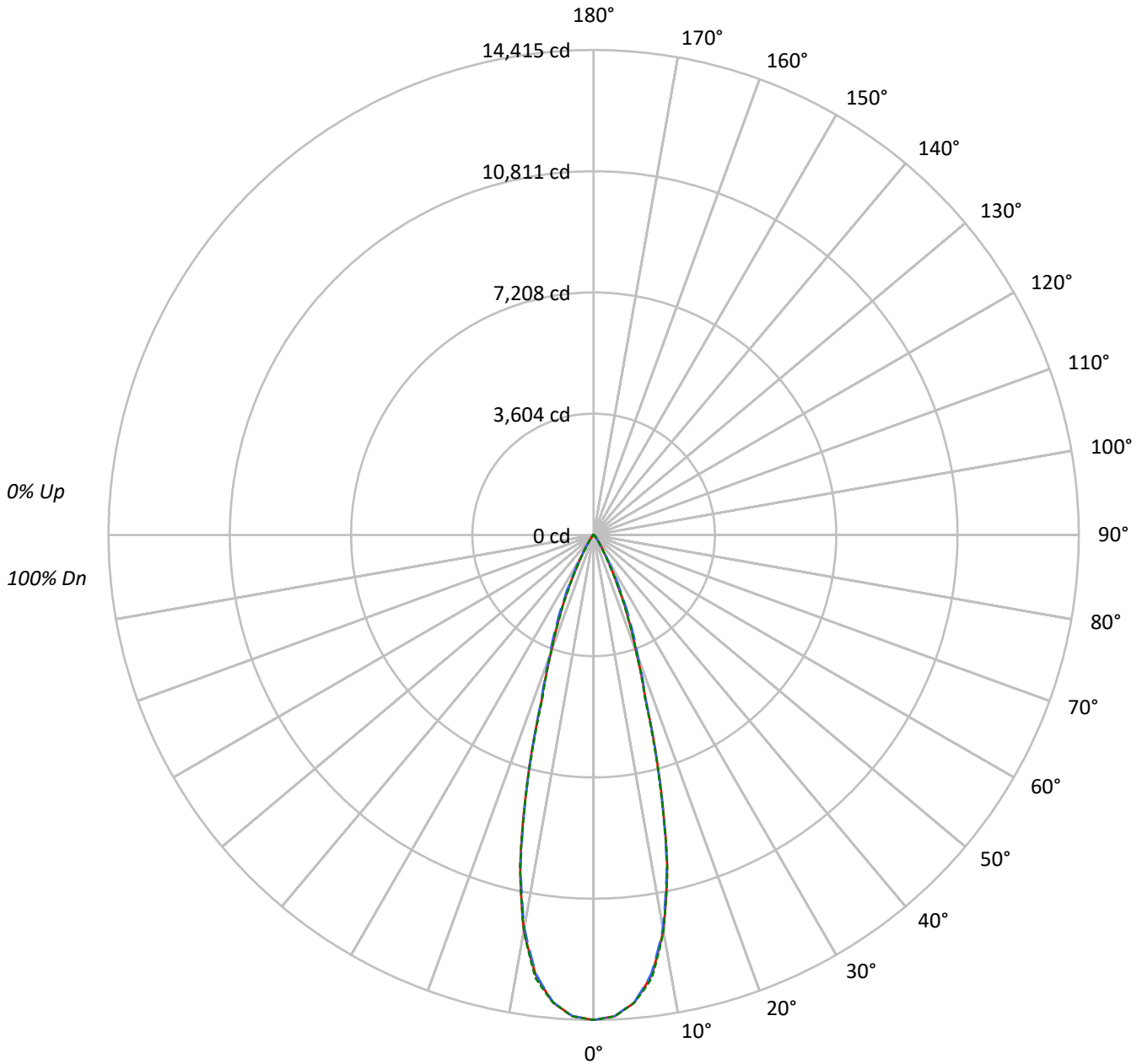
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1103365	1103365	1103365
5°	1071690	1070438	1071744
10°	928245	921700	928027
15°	605635	602378	599351
20°	301150	312448	300751
25°	151700	171066	148592
30°	60738	66182	52916
35°	28173	26986	22613
40°	12160	13509	11461
45°	8584	10652	8660
50°	2953	7752	3120
55°	1695	3216	1788
60°	1194	1408	1194
65°	761	761	761
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10652 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1267.6	28.3
10°-20°	2041.4	45.5
20°-30°	882.2	19.7
30°-40°	201.1	4.5
40°-50°	69.0	1.5
50°-60°	16.9	0.4
60°-70°	4.4	0.1
70°-80°	0.5	0.0
80°-90°	0.0	0.0
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°	4191.2	93.5
0°-40°	4392.2	98.0
0°-60°	4478.1	99.9
0°-90°	4482.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4482.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14415	14415	14415	14415	14415	
5°	13948	13934	13932	13960	13948	1269
15°	7643	7551	7602	7577	7563	2046
25°	1796	1864	2026	1817	1759	860
35°	302	308	289	287	242	205
45°	79	98	98	98	80	56
55°	13	13	24	14	13	12
65°	4	4	4	4	4	4
75°	0	0	1	0	0	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°	14414.9	14414.9	14414.9	14414.9	14414.9
2.5°	14319.3	14309.4	14315.1	14322.1	14325.0
5°	13947.8	13934.3	13931.5	13960.5	13948.5
7.5°	13198.3	13179.2	13150.2	13216.0	13277.5
10°	11942.8	11921.6	11858.6	11889.7	11940.0
12.5°	10089.3	10020.6	10019.2	10118.3	10104.8
15°	7642.7	7550.7	7601.6	7576.9	7563.4
17.5°	5139.5	5104.1	5172.0	5151.5	5063.0
20°	3697.1	3706.3	3835.8	3770.7	3692.2
22.5°	2697.8	2731.1	2884.7	2716.9	2655.4
25°	1796.2	1864.1	2025.5	1816.7	1759.4
27.5°	1104.8	1135.9	1299.4	1090.6	1059.5
30°	687.2	671.6	748.8	642.6	598.7
32.5°	450.8	431.0	455.8	409.1	373.7
35°	301.5	307.9	288.8	286.6	242.0
37.5°	188.3	216.6	191.1	203.8	155.7
40°	121.7	157.1	135.2	149.3	114.7
42.5°	99.8	121.0	111.1	118.2	101.9
45°	79.3	98.4	98.4	98.4	80.0
47.5°	43.9	65.8	84.2	67.2	46.7
50°	24.8	33.3	65.1	34.7	26.2
52.5°	17.0	19.1	44.6	19.8	17.7
55°	12.7	13.4	24.1	14.2	13.4
57.5°	9.9	10.6	12.7	10.6	9.9
60°	7.8	7.8	9.2	8.5	7.8
62.5°	5.7	5.7	6.4	5.7	5.7
65°	4.2	4.2	4.2	4.2	4.2
67.5°	2.1	2.8	2.8	2.8	2.8
70°	2.1	1.4	1.4	1.4	2.1
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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