

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P751458

Luminaire Tested: LD4D65D010-EU4DR3055659030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751458
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-EU4DR3055659030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6413.2 lumens
Efficiency: N/A
Efficacy: 88.1 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

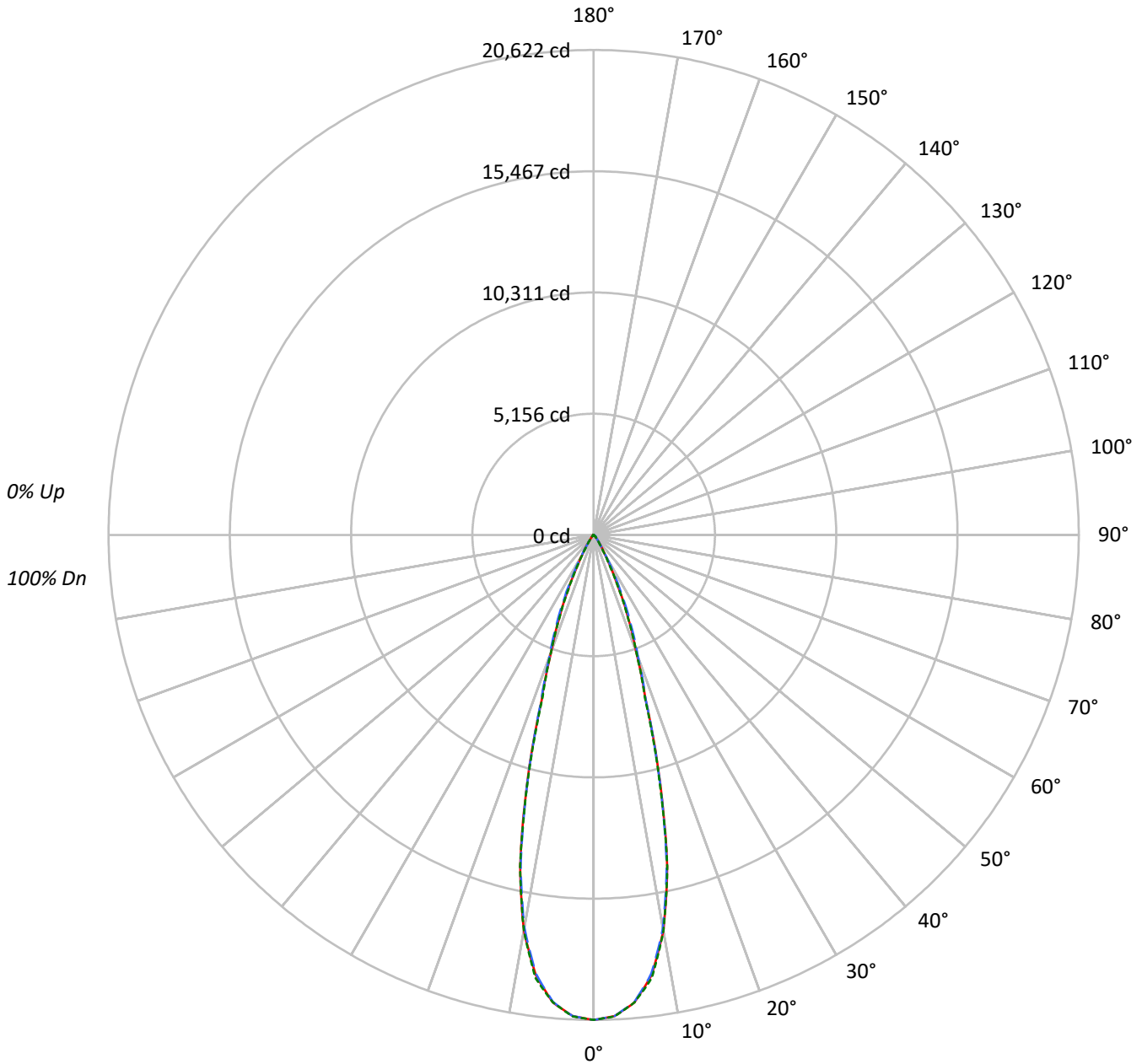
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1578455	1578455	1578455
5°	1533143	1531352	1533220
10°	1327934	1318568	1327615
15°	866409	861758	857423
20°	430828	446989	430249
25°	217019	244721	212576
30°	86891	94678	75701
35°	40302	38601	32359
40°	17396	19325	16387
45°	12275	15231	12384
50°	4215	11086	4466
55°	2429	4591	2562
60°	1699	2021	1699
65°	1105	1105	1105
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15231 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1813.4	28.3
10°-20°	2920.4	45.5
20°-30°	1262.0	19.7
30°-40°	287.6	4.5
40°-50°	98.8	1.5
50°-60°	24.1	0.4
60°-70°	6.2	0.1
70°-80°	0.7	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°	5995.8	93.5
0°-40°	6283.4	98.0
0°-60°	6406.3	99.9
0°-90°	6413.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6413.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20622	20622	20622	20622	20622	
5°	19954	19934	19930	19972	19954	1815
15°	10934	10802	10875	10839	10820	2928
25°	2570	2667	2898	2599	2517	1230
35°	431	440	413	410	346	293
45°	113	141	141	141	114	80
55°	18	19	34	20	19	18
65°	6	6	6	6	6	6
75°	0	0	1	0	0	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°	20621.7	20621.7	20621.7	20621.7	20621.7
2.5°	20485.0	20470.8	20478.9	20489.0	20493.1
5°	19953.5	19934.2	19930.2	19971.7	19954.5
7.5°	18881.3	18853.9	18812.4	18906.6	18994.7
10°	17085.2	17054.8	16964.7	17009.2	17081.1
12.5°	14433.6	14335.3	14333.3	14475.1	14455.8
15°	10933.5	10801.9	10874.8	10839.3	10820.1
17.5°	7352.4	7301.8	7399.0	7369.7	7243.1
20°	5289.1	5302.2	5487.5	5394.4	5282.0
22.5°	3859.5	3907.1	4126.8	3886.8	3798.7
25°	2569.6	2666.8	2897.6	2599.0	2517.0
27.5°	1580.4	1625.0	1858.9	1560.2	1515.6
30°	983.1	960.8	1071.2	919.3	856.5
32.5°	644.9	616.6	652.0	585.2	534.6
35°	431.3	440.4	413.1	410.0	346.3
37.5°	269.3	309.8	273.4	291.6	222.7
40°	174.1	224.8	193.4	213.6	164.0
42.5°	142.8	173.1	159.0	169.1	145.8
45°	113.4	140.7	140.7	140.7	114.4
47.5°	62.8	94.2	120.5	96.2	66.8
50°	35.4	47.6	93.1	49.6	37.5
52.5°	24.3	27.3	63.8	28.3	25.3
55°	18.2	19.2	34.4	20.2	19.2
57.5°	14.2	15.2	18.2	15.2	14.2
60°	11.1	11.1	13.2	12.1	11.1
62.5°	8.1	8.1	9.1	8.1	8.1
65°	6.1	6.1	6.1	6.1	6.1
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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