

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: P751486

Luminaire Tested: LD4D65D010-EU4DR3055659040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751486
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-EU4DR3055659040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7597.2 lumens
Efficiency: N/A
Efficacy: 104.4 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

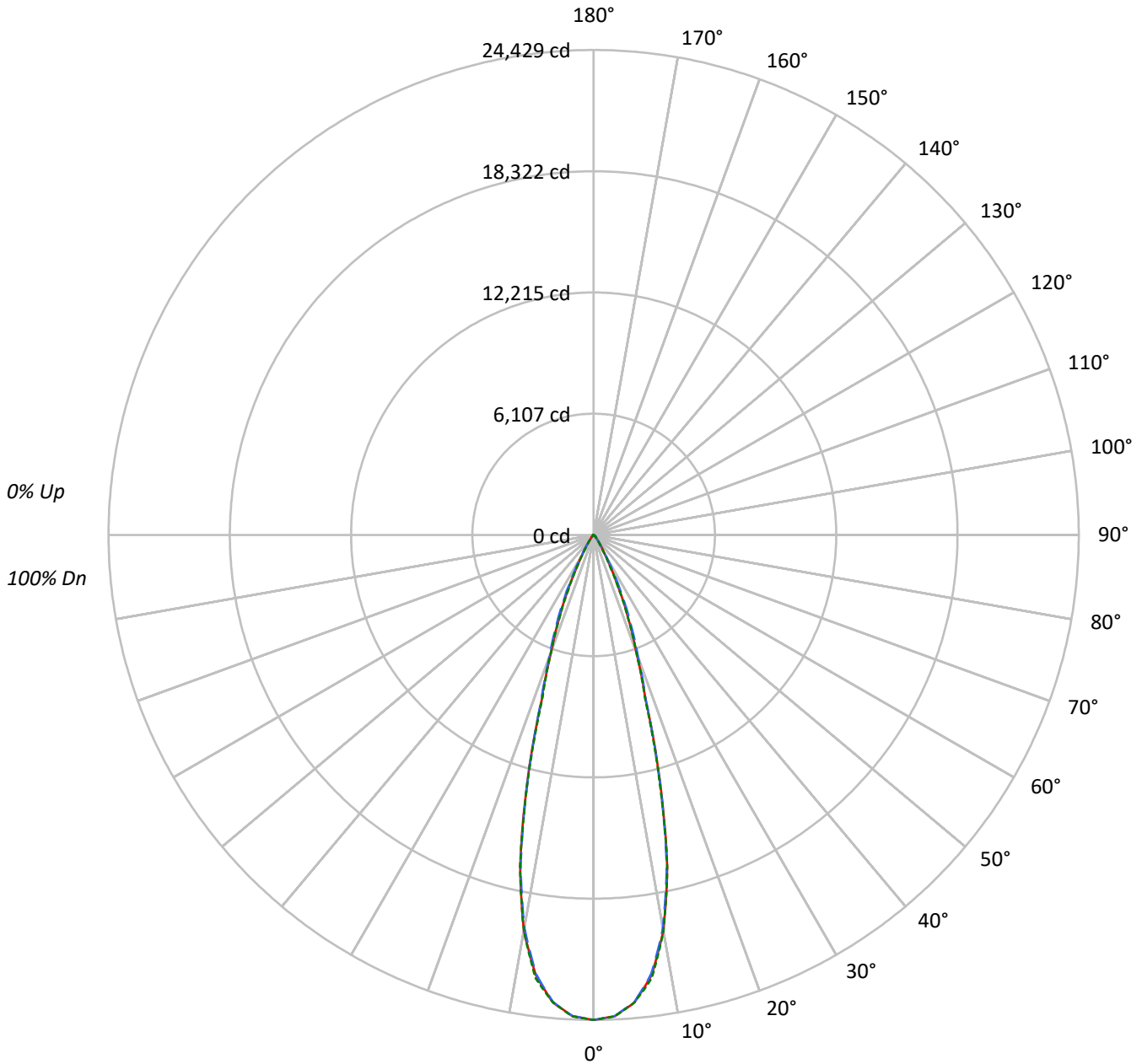
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1869856	1869856	1869856
5°	1816175	1814054	1816267
10°	1573083	1561992	1572710
15°	1026355	1020847	1015712
20°	510361	529511	509677
25°	257085	289905	251815
30°	102933	112151	89684
35°	47740	45721	38330
40°	20614	22892	19415
45°	14538	18045	14668
50°	5001	13135	5287
55°	2883	5445	3043
60°	2021	2388	2021
65°	1304	1304	1304
70°	806	537	806
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18045 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2148.1	28.3
10°-20°	3459.6	45.5
20°-30°	1495.0	19.7
30°-40°	340.7	4.5
40°-50°	117.0	1.5
50°-60°	28.6	0.4
60°-70°	7.4	0.1
70°-80°	0.8	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°	7102.7	93.5
0°-40°	7443.4	98.0
0°-60°	7589.0	99.9
0°-90°	7597.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7597.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24429	24429	24429	24429	24429	
5°	23637	23614	23610	23659	23638	2150
15°	12952	12796	12882	12840	12818	3468
25°	3044	3159	3433	3079	2982	1457
35°	511	522	489	486	410	347
45°	134	167	167	167	136	95
55°	22	23	41	24	23	21
65°	7	7	7	7	7	7
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°	24428.7	24428.7	24428.7	24428.7	24428.7
2.5°	24266.8	24250.0	24259.6	24271.6	24276.4
5°	23637.1	23614.3	23609.5	23658.7	23638.3
7.5°	22367.0	22334.6	22285.4	22397.0	22501.3
10°	20239.3	20203.3	20096.6	20149.3	20234.5
12.5°	17098.2	16981.8	16979.4	17147.3	17124.5
15°	12951.9	12796.0	12882.4	12840.4	12817.6
17.5°	8709.8	8649.8	8765.0	8730.2	8580.3
20°	6265.5	6281.1	6500.6	6390.2	6257.1
22.5°	4572.0	4628.4	4888.6	4604.4	4500.0
25°	3044.0	3159.1	3432.6	3078.8	2981.6
27.5°	1872.2	1925.0	2202.0	1848.2	1795.5
30°	1164.6	1138.2	1268.9	1089.0	1014.7
32.5°	764.0	730.4	772.4	693.2	633.3
35°	510.9	521.7	489.3	485.7	410.2
37.5°	319.0	367.0	323.8	345.4	263.9
40°	206.3	266.3	229.1	253.1	194.3
42.5°	169.1	205.1	188.3	200.3	172.7
45°	134.3	166.7	166.7	166.7	135.5
47.5°	74.4	111.5	142.7	113.9	79.2
50°	42.0	56.4	110.3	58.8	44.4
52.5°	28.8	32.4	75.6	33.6	30.0
55°	21.6	22.8	40.8	24.0	22.8
57.5°	16.8	18.0	21.6	18.0	16.8
60°	13.2	13.2	15.6	14.4	13.2
62.5°	9.6	9.6	10.8	9.6	9.6
65°	7.2	7.2	7.2	7.2	7.2
67.5°	3.6	4.8	4.8	4.8	4.8
70°	3.6	2.4	2.4	2.4	3.6
72.5°	2.4	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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