

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: P751471

Luminaire Tested: LD4D65D010-EU4DR3055659035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751471
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-EU4DR3055659035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6480.8 lumens
Efficiency: N/A
Efficacy: 89.0 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

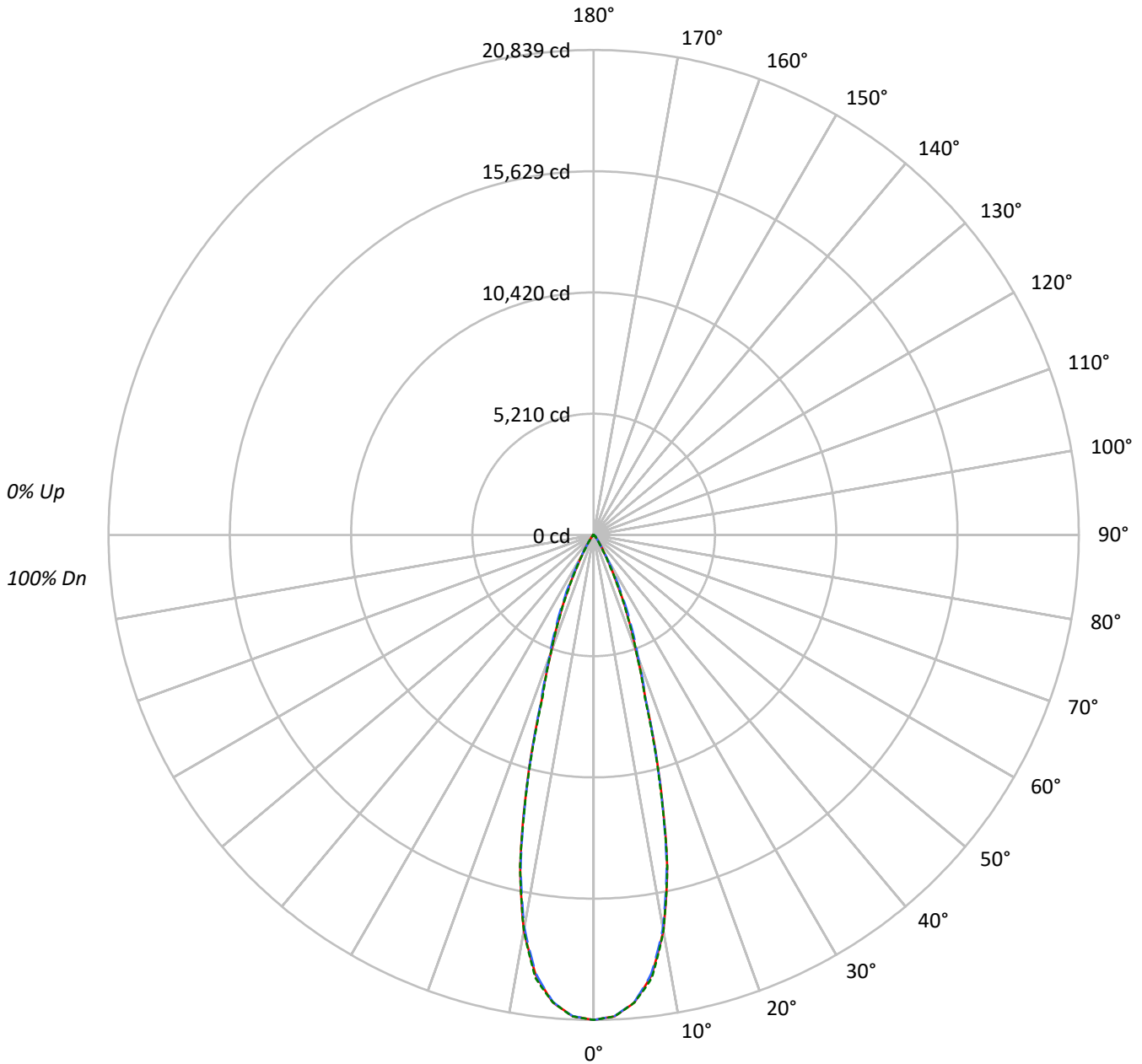
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1595080	1595080	1595080
5°	1549286	1547480	1549370
10°	1341916	1332457	1341597
15°	875538	870831	866457
20°	435365	451697	434778
25°	219308	247305	214815
30°	87801	95676	76506
35°	40722	39003	32695
40°	17586	19524	16557
45°	12405	15393	12514
50°	4263	11205	4513
55°	2455	4644	2589
60°	1730	2036	1730
65°	1105	1105	1105
70°	694	448	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 15393 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1832.5	28.3
10°-20°	2951.2	45.5
20°-30°	1275.3	19.7
30°-40°	290.7	4.5
40°-50°	99.8	1.5
50°-60°	24.4	0.4
60°-70°	6.3	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°	6059.0	93.5
0°-40°	6349.6	98.0
0°-60°	6473.8	99.9
0°-90°	6480.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6480.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20839	20839	20839	20839	20839	
5°	20164	20144	20140	20182	20165	1834
15°	11049	10916	10989	10954	10934	2958
25°	2597	2695	2928	2626	2544	1243
35°	436	445	417	414	350	296
45°	115	142	142	142	116	81
55°	18	19	35	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°	20838.9	20838.9	20838.9	20838.9	20838.9
2.5°	20700.8	20686.5	20694.6	20704.9	20709.0
5°	20163.6	20144.2	20140.1	20182.1	20164.7
7.5°	19080.2	19052.5	19010.6	19105.7	19194.7
10°	17265.1	17234.4	17143.4	17188.4	17261.0
12.5°	14585.6	14486.3	14484.3	14627.5	14608.1
15°	11048.7	10915.7	10989.3	10953.5	10934.1
17.5°	7429.9	7378.7	7477.0	7447.3	7319.4
20°	5344.8	5358.1	5545.3	5451.2	5337.6
22.5°	3900.1	3948.2	4170.2	3927.8	3838.7
25°	2596.7	2694.9	2928.2	2626.3	2543.5
27.5°	1597.1	1642.1	1878.4	1576.6	1531.6
30°	993.4	970.9	1082.5	929.0	865.6
32.5°	651.7	623.1	658.9	591.4	540.2
35°	435.8	445.1	417.4	414.4	349.9
37.5°	272.1	313.1	276.2	294.7	225.1
40°	176.0	227.1	195.4	215.9	165.7
42.5°	144.3	175.0	160.6	170.9	147.3
45°	114.6	142.2	142.2	142.2	115.6
47.5°	63.4	95.2	121.8	97.2	67.5
50°	35.8	48.1	94.1	50.1	37.9
52.5°	24.6	27.6	64.5	28.6	25.6
55°	18.4	19.4	34.8	20.5	19.4
57.5°	14.3	15.3	18.4	15.3	14.3
60°	11.3	11.3	13.3	12.3	11.3
62.5°	8.2	8.2	9.2	8.2	8.2
65°	6.1	6.1	6.1	6.1	6.1
67.5°	3.1	4.1	4.1	4.1	4.1
70°	3.1	2.0	2.0	2.0	3.1
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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