

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: P751445

Luminaire Tested: LD4D65D010-EU4DR3055659027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751445
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-EU4DR3055659027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6225.1 lumens
Efficiency: N/A
Efficacy: 85.5 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

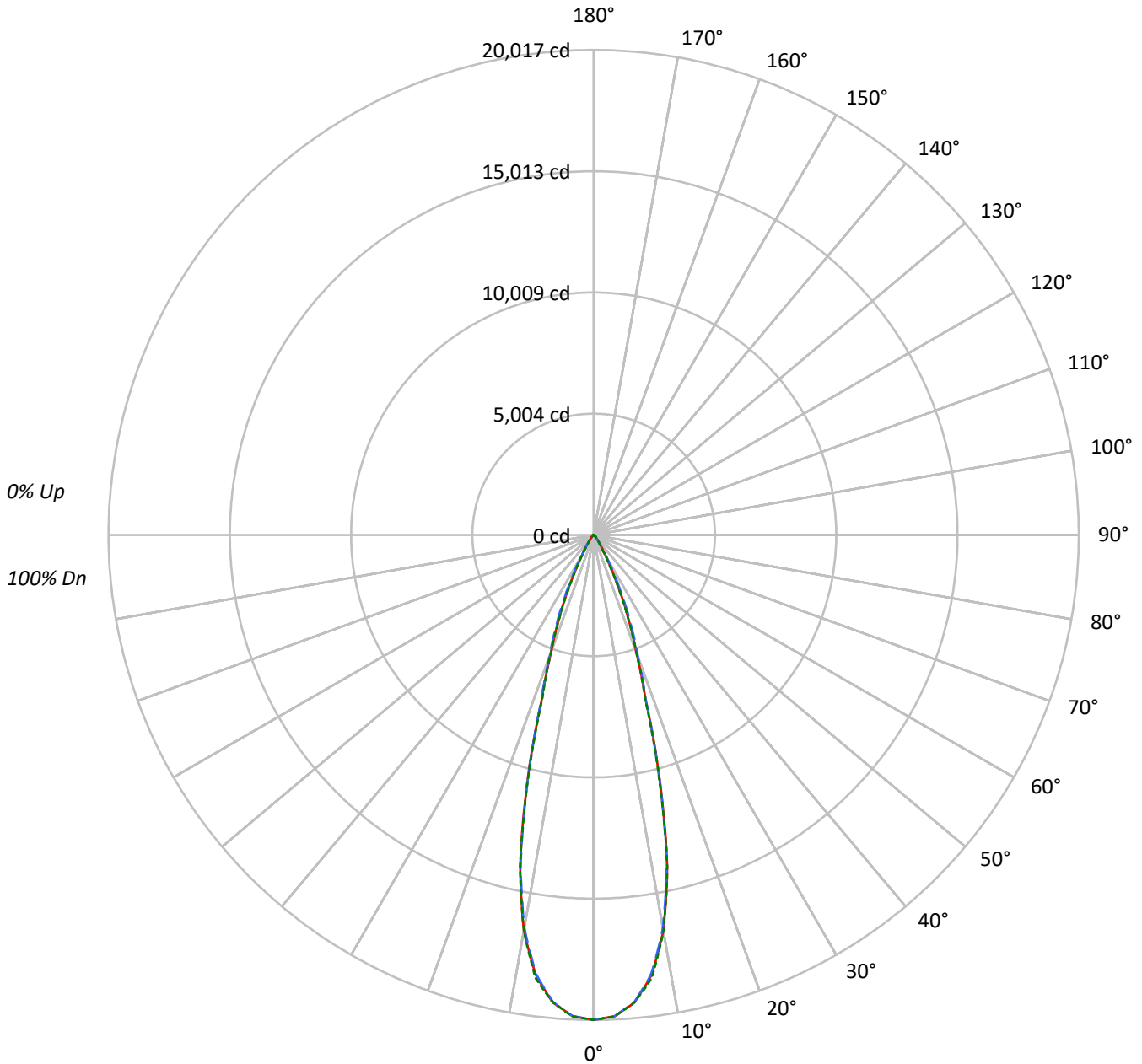
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1532154	1532154	1532154
5°	1488171	1486434	1488240
10°	1288978	1279892	1288675
15°	840996	836479	832271
20°	418186	433874	417624
25°	210651	237542	206335
30°	84346	91902	73483
35°	39124	37470	31406
40°	16887	18755	15907
45°	11918	14787	12026
50°	4096	10765	4335
55°	2362	4457	2496
60°	1653	1960	1653
65°	1069	1069	1069
70°	649	448	649
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 14787 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1760.2	28.3
10°-20°	2834.8	45.5
20°-30°	1225.0	19.7
30°-40°	279.2	4.5
40°-50°	95.9	1.5
50°-60°	23.4	0.4
60°-70°	6.1	0.1
70°-80°	0.6	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°	5819.9	93.5
0°-40°	6099.1	98.0
0°-60°	6218.4	99.9
0°-90°	6225.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6225.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20017	20017	20017	20017	20017	
5°	19368	19350	19346	19386	19369	1762
15°	10613	10485	10556	10521	10503	2842
25°	2494	2589	2813	2523	2443	1194
35°	419	428	401	398	336	284
45°	110	137	137	137	111	78
55°	18	19	33	20	19	17
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°	20016.8	20016.8	20016.8	20016.8	20016.8
2.5°	19884.1	19870.3	19878.2	19888.0	19892.0
5°	19368.2	19349.5	19345.6	19385.8	19369.1
7.5°	18327.4	18300.9	18260.6	18352.0	18437.5
10°	16584.0	16554.5	16467.1	16510.3	16580.1
12.5°	14010.2	13914.8	13912.9	14050.5	14031.8
15°	10612.8	10485.0	10555.8	10521.4	10502.7
17.5°	7136.8	7087.6	7182.0	7153.5	7030.6
20°	5133.9	5146.7	5326.5	5236.1	5127.0
22.5°	3746.3	3792.5	4005.7	3772.8	3687.3
25°	2494.2	2588.6	2812.6	2522.7	2443.1
27.5°	1534.1	1577.3	1804.3	1514.4	1471.2
30°	954.3	932.6	1039.8	892.3	831.4
32.5°	626.0	598.5	632.9	568.0	518.9
35°	418.7	427.5	401.0	398.0	336.1
37.5°	261.4	300.7	265.3	283.0	216.2
40°	169.0	218.2	187.7	207.4	159.2
42.5°	138.6	168.1	154.3	164.1	141.5
45°	110.1	136.6	136.6	136.6	111.1
47.5°	60.9	91.4	116.9	93.4	64.9
50°	34.4	46.2	90.4	48.2	36.4
52.5°	23.6	26.5	61.9	27.5	24.6
55°	17.7	18.7	33.4	19.7	18.7
57.5°	13.8	14.7	17.7	14.7	13.8
60°	10.8	10.8	12.8	11.8	10.8
62.5°	7.9	7.9	8.8	7.9	7.9
65°	5.9	5.9	5.9	5.9	5.9
67.5°	2.9	3.9	3.9	3.9	3.9
70°	2.9	2.0	2.0	2.0	2.9
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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