

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: P745071

Luminaire Tested: LD4D25D010-EU4DR3020359035-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745071
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: LD4D25D010-EU4DR3020359035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 1977.7 lumens
Efficiency: N/A
Efficacy: 78.8 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): 25.1
Input Voltage (V): NR
Input Current (Ain): 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

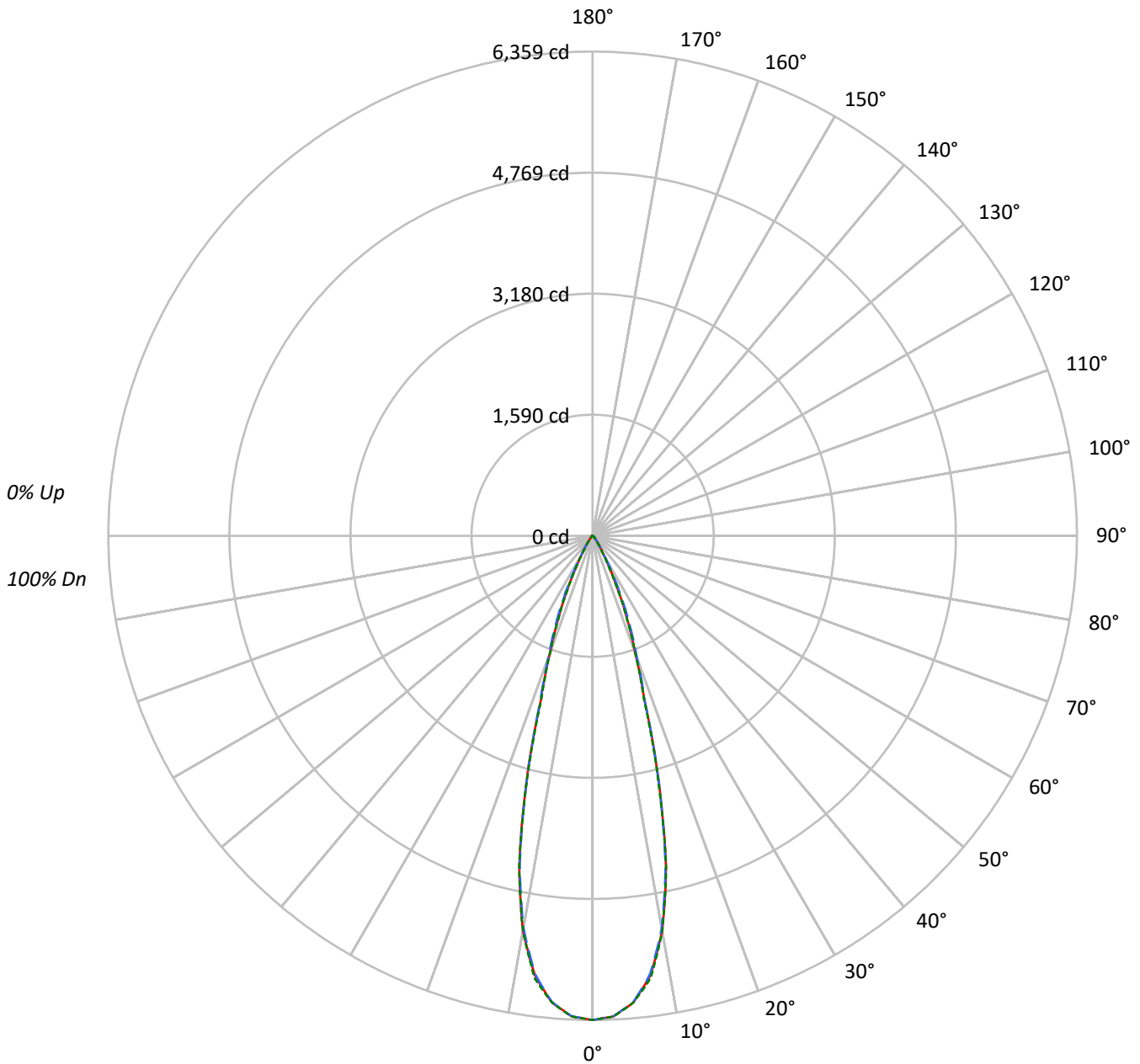


Downlight



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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°	486747	486747	486747
5°	472778	472225	472801
10°	409498	406606	409397
15°	267178	265743	264404
20°	132854	137839	132675
25°	66923	75470	65555
30°	26789	29193	23342
35°	12428	11905	9980
40°	5366	5955	5056
45°	3778	4698	3821
50°	1298	3418	1381
55°	747	1415	801
60°	520	628	520
65°	344	344	344
70°	201	134	201
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4698 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.2	28.3
10°-20°	900.6	45.5
20°-30°	389.2	19.7
30°-40°	88.7	4.5
40°-50°	30.5	1.5
50°-60°	7.4	0.4
60°-70°	1.9	0.1
70°-80°	0.2	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°	1848.9	93.5
0°-40°	1937.6	98.0
0°-60°	1975.5	99.9
0°-90°	1977.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1977.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6359	6359	6359	6359	6359	
5°	6153	6147	6146	6159	6153	560
15°	3372	3331	3354	3342	3337	903
25°	792	822	894	801	776	379
35°	133	136	127	126	107	90
45°	35	43	43	43	35	25
55°	6	6	11	6	6	5
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
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°	6359.1	6359.1	6359.1	6359.1	6359.1
2.5°	6317.0	6312.6	6315.1	6318.2	6319.5
5°	6153.1	6147.1	6145.9	6158.7	6153.4
7.5°	5822.4	5814.0	5801.2	5830.2	5857.4
10°	5268.6	5259.2	5231.4	5245.1	5267.3
12.5°	4450.9	4420.6	4420.0	4463.7	4457.7
15°	3371.6	3331.0	3353.5	3342.5	3336.6
17.5°	2267.3	2251.7	2281.7	2272.6	2233.5
20°	1631.0	1635.0	1692.2	1663.4	1628.8
22.5°	1190.1	1204.8	1272.6	1198.6	1171.4
25°	792.4	822.4	893.6	801.4	776.2
27.5°	487.4	501.1	573.2	481.1	467.4
30°	303.1	296.3	330.3	283.5	264.1
32.5°	198.9	190.2	201.0	180.5	164.8
35°	133.0	135.8	127.4	126.5	106.8
37.5°	83.0	95.5	84.3	89.9	68.7
40°	53.7	69.3	59.6	65.9	50.6
42.5°	44.0	53.4	49.0	52.1	45.0
45°	34.9	43.4	43.4	43.4	35.3
47.5°	19.4	29.0	37.1	29.7	20.6
50°	10.9	14.7	28.7	15.3	11.6
52.5°	7.5	8.4	19.7	8.8	7.8
55°	5.6	6.0	10.6	6.2	6.0
57.5°	4.4	4.7	5.6	4.7	4.4
60°	3.4	3.4	4.1	3.7	3.4
62.5°	2.5	2.5	2.8	2.5	2.5
65°	1.9	1.9	1.9	1.9	1.9
67.5°	0.9	1.3	1.3	1.3	1.3
70°	0.9	0.6	0.6	0.6	0.9
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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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