

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: P745965

Luminaire Tested: LD4D30D010-EU4DR3020359024-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745965
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: LD4D30D010-EU4DR3020359024-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2083.6 lumens
Efficiency: N/A
Efficacy: 71.8 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): 29
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

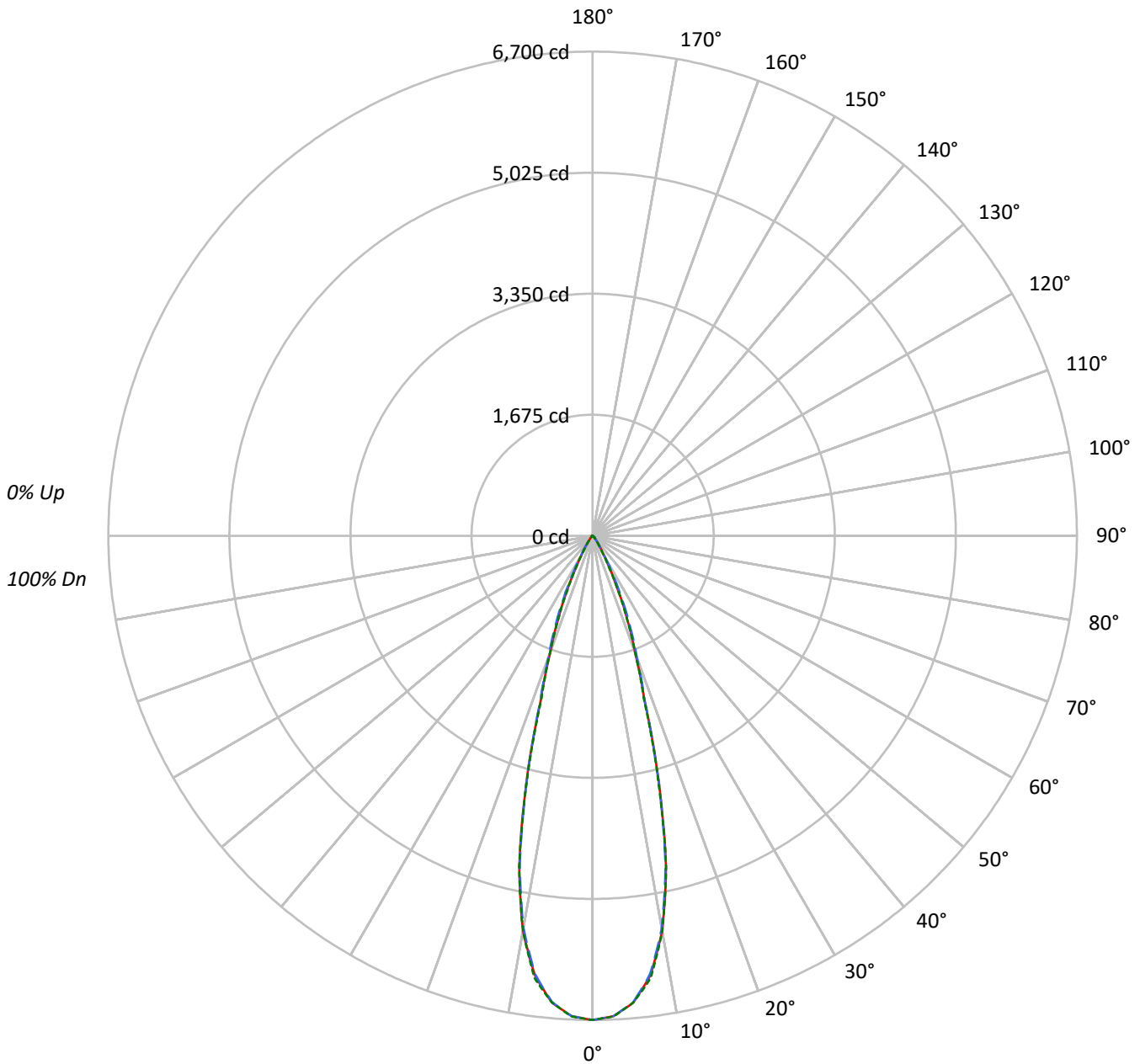


Downlight



TEST NUMBER: P745965
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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					70					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	87	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°	512825	512825	512825
5°	498103	497519	498134
10°	431431	428392	431330
15°	281489	279975	278565
20°	139974	145228	139778
25°	70504	79507	69060
30°	28230	30758	24597
35°	13091	12540	10512
40°	5655	6285	5326
45°	3984	4947	4027
50°	1369	3608	1441
55°	787	1495	827
60°	551	658	551
65°	344	344	344
70°	224	134	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4947 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.1	28.3
10°-20°	948.8	45.5
20°-30°	410.0	19.7
30°-40°	93.4	4.5
40°-50°	32.1	1.5
50°-60°	7.8	0.4
60°-70°	2.0	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°	1948.0	93.5
0°-40°	2041.4	98.0
0°-60°	2081.4	99.9
0°-90°	2083.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2083.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6700	6700	6700	6700	6700	
5°	6483	6476	6475	6489	6483	590
15°	3552	3509	3533	3522	3515	951
25°	835	866	941	844	818	400
35°	140	143	134	133	112	95
45°	37	46	46	46	37	26
55°	6	6	11	7	6	6
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°	6699.8	6699.8	6699.8	6699.8	6699.8
2.5°	6655.4	6650.8	6653.4	6656.7	6658.0
5°	6482.7	6476.5	6475.1	6488.6	6483.1
7.5°	6134.4	6125.5	6112.0	6142.6	6171.2
10°	5550.8	5541.0	5511.7	5526.2	5549.5
12.5°	4689.3	4657.5	4656.8	4702.8	4696.6
15°	3552.2	3509.4	3533.1	3521.6	3515.3
17.5°	2388.7	2372.3	2403.9	2394.4	2353.2
20°	1718.4	1722.6	1782.9	1752.6	1716.0
22.5°	1253.9	1269.4	1340.8	1262.8	1234.2
25°	834.8	866.4	941.4	844.4	817.7
27.5°	513.5	528.0	603.9	506.9	492.4
30°	319.4	312.1	348.0	298.7	278.3
32.5°	209.5	200.3	211.8	190.1	173.7
35°	140.1	143.1	134.2	133.2	112.5
37.5°	87.5	100.7	88.8	94.7	72.4
40°	56.6	73.1	62.9	69.4	53.3
42.5°	46.4	56.3	51.6	54.9	47.4
45°	36.8	45.7	45.7	45.7	37.2
47.5°	20.4	30.6	39.1	31.2	21.7
50°	11.5	15.5	30.3	16.1	12.1
52.5°	7.9	8.9	20.7	9.2	8.3
55°	5.9	6.2	11.2	6.6	6.2
57.5°	4.6	4.9	5.9	4.9	4.6
60°	3.6	3.6	4.3	4.0	3.6
62.5°	2.6	2.6	3.0	2.6	2.6
65°	1.9	1.9	1.9	1.9	1.9
67.5°	1.0	1.3	1.3	1.3	1.3
70°	1.0	0.6	0.6	0.6	1.0
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



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Scaled Data Report





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

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