

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: P746748

Luminaire Tested: LD4D35BD010-EU4DR3020359024-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746748
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: LD4D35BD010-EU4DR3020359024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2152.8 lumens
Efficiency: N/A
Efficacy: 69.9 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

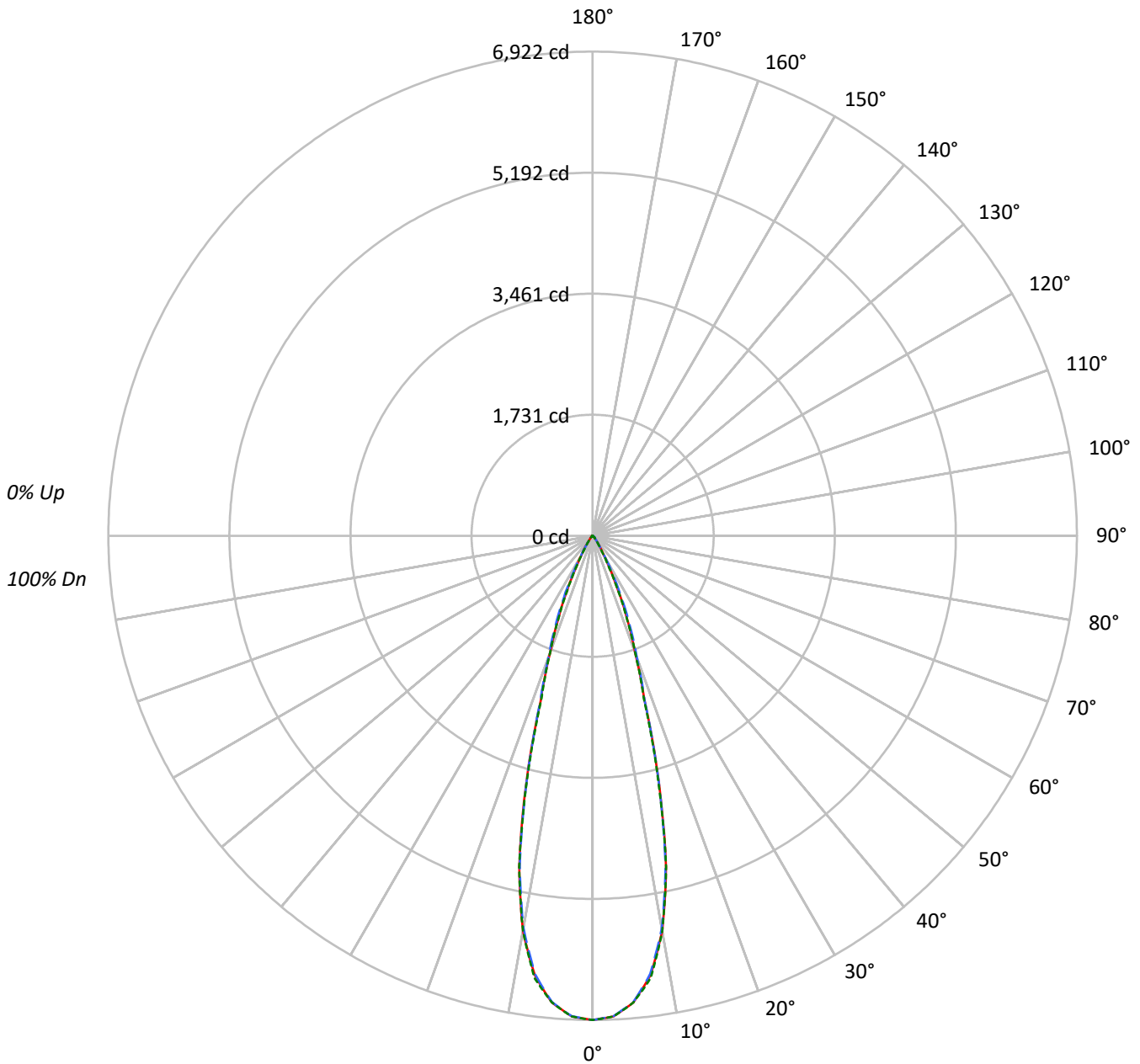
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	529872	529872	529872
5°	514661	514054	514684
10°	445772	442632	445671
15°	290848	289279	287828
20°	144625	150050	144429
25°	72852	82151	71357
30°	29167	31783	25411
35°	13530	12960	10858
40°	5845	6485	5506
45°	4124	5109	4157
50°	1417	3727	1500
55°	814	1548	867
60°	566	674	566
65°	362	362	362
70°	224	157	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: 5109 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.7	28.3
10°-20°	980.4	45.5
20°-30°	423.6	19.7
30°-40°	96.6	4.5
40°-50°	33.2	1.5
50°-60°	8.1	0.4
60°-70°	2.1	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°	2012.7	93.5
0°-40°	2109.3	98.0
0°-60°	2150.5	99.9
0°-90°	2152.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2152.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6922	6922	6922	6922	6922	
5°	6698	6692	6690	6704	6698	609
15°	3670	3626	3650	3639	3632	983
25°	863	895	973	872	845	413
35°	145	148	139	138	116	98
45°	38	47	47	47	38	27
55°	6	6	12	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°	6922.5	6922.5	6922.5	6922.5	6922.5
2.5°	6876.6	6871.8	6874.6	6878.0	6879.3
5°	6698.2	6691.7	6690.3	6704.3	6698.5
7.5°	6338.2	6329.1	6315.1	6346.7	6376.3
10°	5735.3	5725.1	5694.9	5709.8	5734.0
12.5°	4845.2	4812.2	4811.5	4859.1	4852.7
15°	3670.3	3626.1	3650.5	3638.7	3632.2
17.5°	2468.1	2451.1	2483.8	2473.9	2431.4
20°	1775.5	1779.9	1842.1	1810.8	1773.1
22.5°	1295.6	1311.6	1385.3	1304.8	1275.2
25°	862.6	895.2	972.7	872.4	844.9
27.5°	530.5	545.5	624.0	523.7	508.8
30°	330.0	322.5	359.6	308.6	287.5
32.5°	216.5	207.0	218.9	196.4	179.5
35°	144.8	147.8	138.7	137.6	116.2
37.5°	90.4	104.0	91.8	97.9	74.8
40°	58.5	75.5	64.9	71.7	55.1
42.5°	47.9	58.1	53.4	56.8	48.9
45°	38.1	47.2	47.2	47.2	38.4
47.5°	21.1	31.6	40.4	32.3	22.4
50°	11.9	16.0	31.3	16.7	12.6
52.5°	8.2	9.2	21.4	9.5	8.5
55°	6.1	6.5	11.6	6.8	6.5
57.5°	4.8	5.1	6.1	5.1	4.8
60°	3.7	3.7	4.4	4.1	3.7
62.5°	2.7	2.7	3.1	2.7	2.7
65°	2.0	2.0	2.0	2.0	2.0
67.5°	1.0	1.4	1.4	1.4	1.4
70°	1.0	0.7	0.7	0.7	1.0
72.5°	0.7	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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





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

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