

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: P746749

Luminaire Tested: LD4D35BD010-EU4DR3020359024-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746749
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-EU4DR3020359024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2674.0 lumens
Efficiency: N/A
Efficacy: 86.8 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

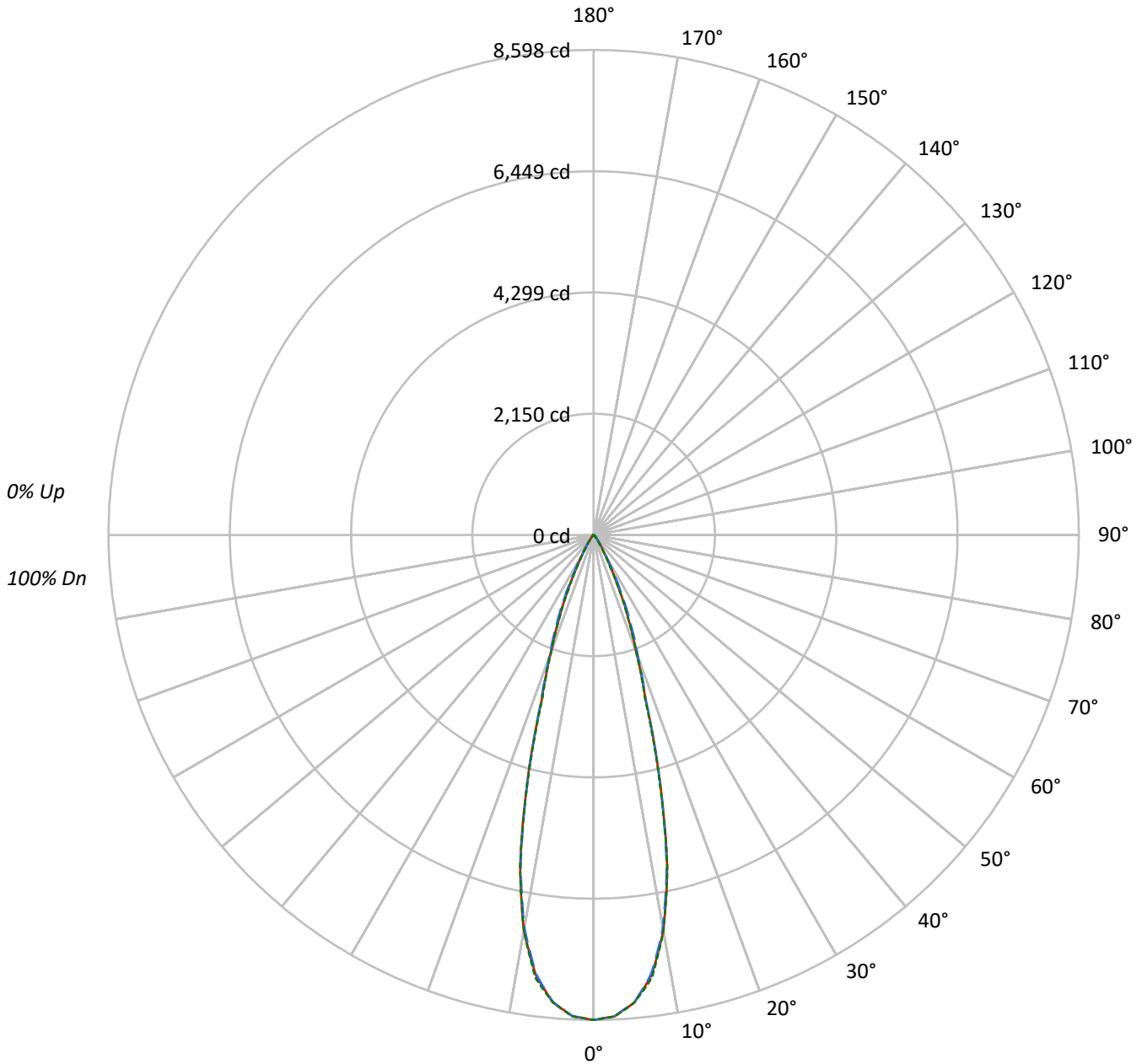
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	658151	658151	658151
5°	639251	638505	639289
10°	553692	549790	553560
15°	361256	359314	357507
20°	179634	186379	179398
25°	90486	102040	88637
30°	36229	39473	31562
35°	16801	16091	13493
40°	7254	8054	6835
45°	5120	6354	5163
50°	1762	4620	1858
55°	1014	1922	1068
60°	704	842	704
65°	453	453	453
70°	291	179	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6354 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.1	28.3
10°-20°	1217.7	45.5
20°-30°	526.2	19.7
30°-40°	119.9	4.5
40°-50°	41.2	1.5
50°-60°	10.0	0.4
60°-70°	2.6	0.1
70°-80°	0.3	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°	2500.0	93.5
0°-40°	2619.9	98.0
0°-60°	2671.2	99.9
0°-90°	2674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2674.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8598	8598	8598	8598	8598	
5°	8320	8312	8310	8327	8320	757
15°	4559	4504	4534	4520	4512	1221
25°	1071	1112	1208	1084	1050	513
35°	180	184	172	171	144	122
45°	47	59	59	59	48	34
55°	8	8	14	8	8	7
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°	8598.4	8598.4	8598.4	8598.4	8598.4
2.5°	8541.4	8535.5	8538.8	8543.1	8544.7
5°	8319.7	8311.7	8310.0	8327.3	8320.2
7.5°	7872.7	7861.3	7844.0	7883.2	7920.0
10°	7123.8	7111.1	7073.6	7092.1	7122.1
12.5°	6018.2	5977.2	5976.4	6035.5	6027.5
15°	4558.8	4503.9	4534.3	4519.5	4511.5
17.5°	3065.7	3044.5	3085.1	3072.8	3020.1
20°	2205.3	2210.8	2288.1	2249.2	2202.4
22.5°	1609.2	1629.1	1720.7	1620.6	1583.9
25°	1071.4	1111.9	1208.2	1083.7	1049.5
27.5°	659.0	677.6	775.1	650.5	632.0
30°	409.9	400.6	446.6	383.3	357.1
32.5°	268.9	257.1	271.9	244.0	222.9
35°	179.8	183.6	172.2	171.0	144.4
37.5°	112.3	129.2	114.0	121.6	92.9
40°	72.6	93.7	80.6	89.1	68.4
42.5°	59.5	72.2	66.3	70.5	60.8
45°	47.3	58.7	58.7	58.7	47.7
47.5°	26.2	39.3	50.2	40.1	27.9
50°	14.8	19.8	38.8	20.7	15.6
52.5°	10.1	11.4	26.6	11.8	10.6
55°	7.6	8.0	14.4	8.4	8.0
57.5°	5.9	6.3	7.6	6.3	5.9
60°	4.6	4.6	5.5	5.1	4.6
62.5°	3.4	3.4	3.8	3.4	3.4
65°	2.5	2.5	2.5	2.5	2.5
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.8	0.8	0.8	1.3
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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