

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: P746788

Luminaire Tested: LD4D35BD010-EU4DR3020359035-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746788
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-EU4DR3020359035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3153.5 lumens
Efficiency: N/A
Efficacy: 102.4 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

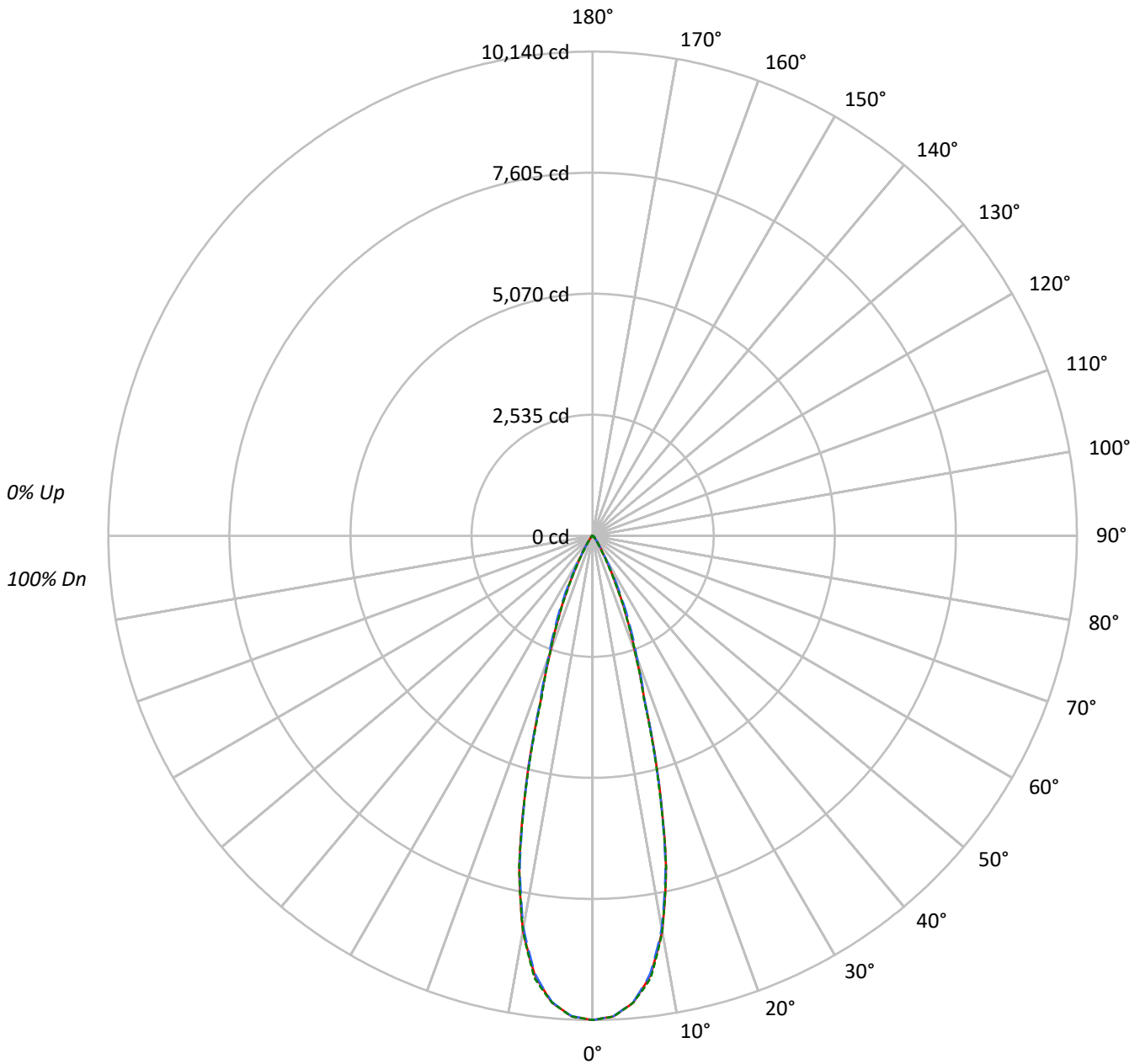


Downlight

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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°	776158	776158	776158
5°	753874	752998	753913
10°	652969	648368	652813
15°	426029	423739	421615
20°	211842	219792	211565
25°	106711	120333	104523
30°	42725	46552	37228
35°	19819	18978	15913
40°	8553	9502	8064
45°	6040	7491	6094
50°	2072	5454	2191
55°	1201	2255	1268
60°	842	995	842
65°	543	543	543
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7491 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.7	28.3
10°-20°	1436.0	45.5
20°-30°	620.5	19.7
30°-40°	141.4	4.5
40°-50°	48.6	1.5
50°-60°	11.9	0.4
60°-70°	3.1	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°	2948.3	93.5
0°-40°	3089.7	98.0
0°-60°	3150.1	99.9
0°-90°	3153.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3153.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10140	10140	10140	10140	10140	
5°	9812	9802	9800	9820	9812	892
15°	5376	5312	5347	5330	5320	1440
25°	1264	1311	1425	1278	1238	605
35°	212	217	203	202	170	144
45°	56	69	69	69	56	40
55°	9	10	17	10	10	9
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	10140.1	10140.1	10140.1	10140.1	10140.1
2.5°	10072.9	10065.9	10069.9	10074.9	10076.9
5°	9811.5	9802.1	9800.1	9820.5	9812.0
7.5°	9284.3	9270.9	9250.4	9296.7	9340.1
10°	8401.1	8386.2	8341.9	8363.8	8399.1
12.5°	7097.3	7049.0	7048.0	7117.7	7108.2
15°	5376.2	5311.5	5347.3	5329.9	5320.5
17.5°	3615.3	3590.5	3638.2	3623.8	3561.6
20°	2600.7	2607.2	2698.3	2652.5	2597.3
22.5°	1897.8	1921.2	2029.2	1911.2	1867.9
25°	1263.5	1311.3	1424.8	1278.0	1237.6
27.5°	777.1	799.0	914.0	767.2	745.3
30°	483.4	472.5	526.7	452.0	421.2
32.5°	317.1	303.2	320.6	287.8	262.9
35°	212.1	216.6	203.1	201.6	170.3
37.5°	132.4	152.3	134.4	143.4	109.5
40°	85.6	110.5	95.1	105.0	80.7
42.5°	70.2	85.1	78.2	83.1	71.7
45°	55.8	69.2	69.2	69.2	56.3
47.5°	30.9	46.3	59.2	47.3	32.9
50°	17.4	23.4	45.8	24.4	18.4
52.5°	11.9	13.4	31.4	13.9	12.4
55°	9.0	9.5	16.9	10.0	9.5
57.5°	7.0	7.5	9.0	7.5	7.0
60°	5.5	5.5	6.5	6.0	5.5
62.5°	4.0	4.0	4.5	4.0	4.0
65°	3.0	3.0	3.0	3.0	3.0
67.5°	1.5	2.0	2.0	2.0	2.0
70°	1.5	1.0	1.0	1.0	1.5
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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