

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: P747542

Luminaire Tested: LD4D40BD010-EU4DR3040509027-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747542
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: LD4D40BD010-EU4DR3040509027-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3565.9 lumens
Efficiency: N/A
Efficacy: 101.3 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

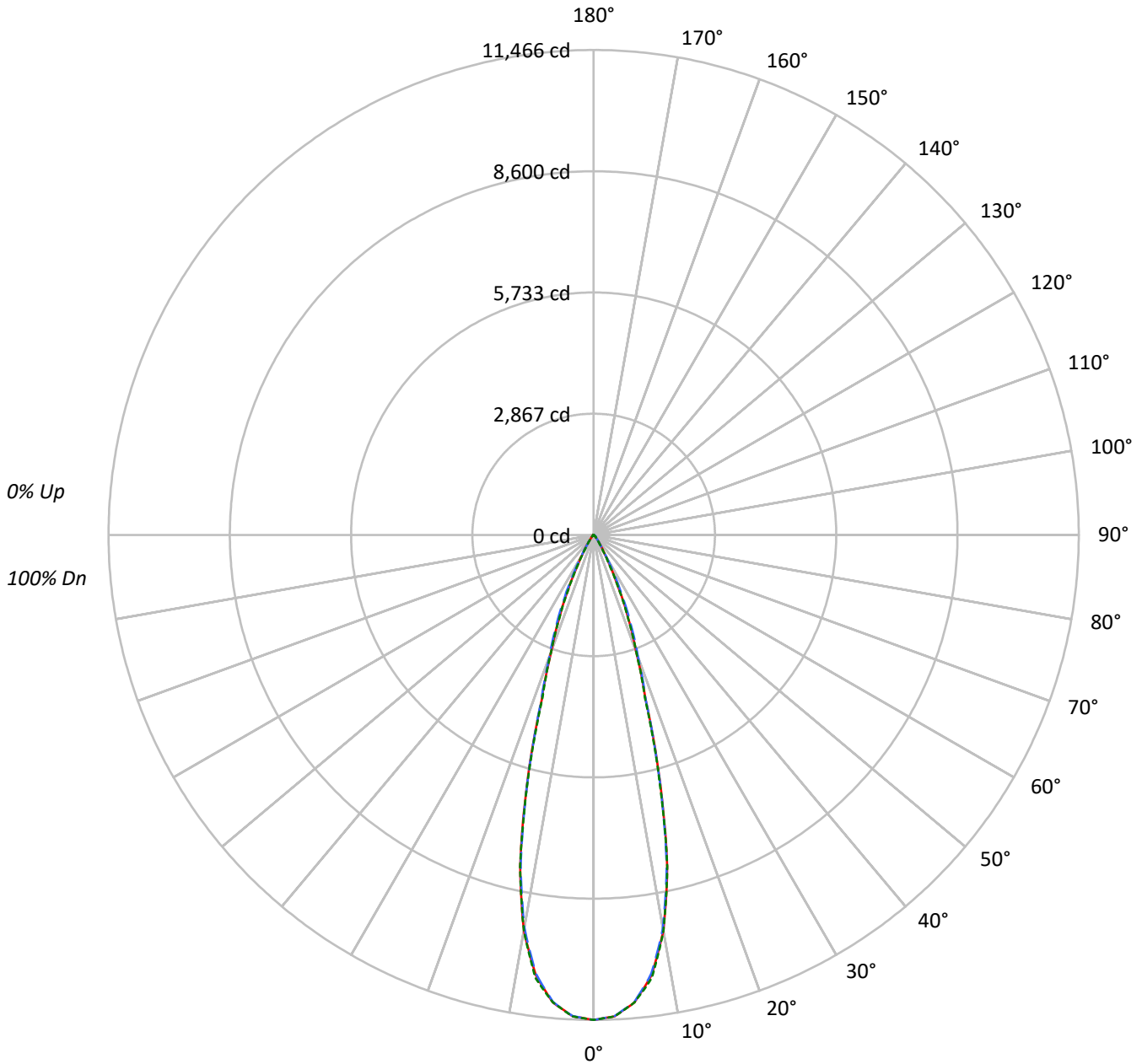
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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					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	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°	877654	877654	877654
5°	852455	851463	852501
10°	738357	733149	738178
15°	481737	479154	476745
20°	239545	248538	239227
25°	120671	136068	118197
30°	48311	52642	42098
35°	22407	21464	17988
40°	9672	10741	9113
45°	6820	8465	6885
50°	2346	6168	2477
55°	1348	2549	1428
60°	949	1118	949
65°	616	616	616
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8465 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1008.3	28.3
10°-20°	1623.8	45.5
20°-30°	701.7	19.7
30°-40°	159.9	4.5
40°-50°	54.9	1.5
50°-60°	13.4	0.4
60°-70°	3.5	0.1
70°-80°	0.4	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°	3333.8	93.5
0°-40°	3493.7	98.0
0°-60°	3562.0	99.9
0°-90°	3565.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3565.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11466	11466	11466	11466	11466	
5°	11094	11084	11082	11105	11095	1009
15°	6079	6006	6047	6027	6016	1628
25°	1429	1483	1611	1445	1400	684
35°	240	245	230	228	192	163
45°	63	78	78	78	64	45
55°	10	11	19	11	11	10
65°	3	3	3	3	3	3
75°	0	0	1	0	0	1
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°	11466.1	11466.1	11466.1	11466.1	11466.1
2.5°	11390.1	11382.2	11386.7	11392.3	11394.6
5°	11094.5	11083.8	11081.6	11104.7	11095.1
7.5°	10498.4	10483.2	10460.1	10512.4	10561.4
10°	9499.7	9482.8	9432.7	9457.5	9497.4
12.5°	8025.3	7970.7	7969.6	8048.4	8037.7
15°	6079.2	6006.1	6046.6	6026.9	6016.2
17.5°	4088.1	4060.0	4114.0	4097.7	4027.3
20°	2940.8	2948.1	3051.2	2999.4	2936.9
22.5°	2145.9	2172.4	2294.6	2161.1	2112.2
25°	1428.8	1482.8	1611.1	1445.1	1399.5
27.5°	878.8	903.5	1033.6	867.5	842.7
30°	546.6	534.2	595.6	511.2	476.3
32.5°	358.6	342.8	362.5	325.4	297.2
35°	239.8	244.9	229.7	228.0	192.5
37.5°	149.7	172.3	152.0	162.1	123.8
40°	96.8	125.0	107.5	118.8	91.2
42.5°	79.4	96.3	88.4	94.0	81.1
45°	63.0	78.2	78.2	78.2	63.6
47.5°	34.9	52.4	67.0	53.5	37.2
50°	19.7	26.5	51.8	27.6	20.8
52.5°	13.5	15.2	35.5	15.8	14.1
55°	10.1	10.7	19.1	11.3	10.7
57.5°	7.9	8.4	10.1	8.4	7.9
60°	6.2	6.2	7.3	6.8	6.2
62.5°	4.5	4.5	5.1	4.5	4.5
65°	3.4	3.4	3.4	3.4	3.4
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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