

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: P747554

Luminaire Tested: LD4D40BD010-EU4DR3040509030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747554
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-EU4DR3040509030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2957.6 lumens
Efficiency: N/A
Efficacy: 84.0 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

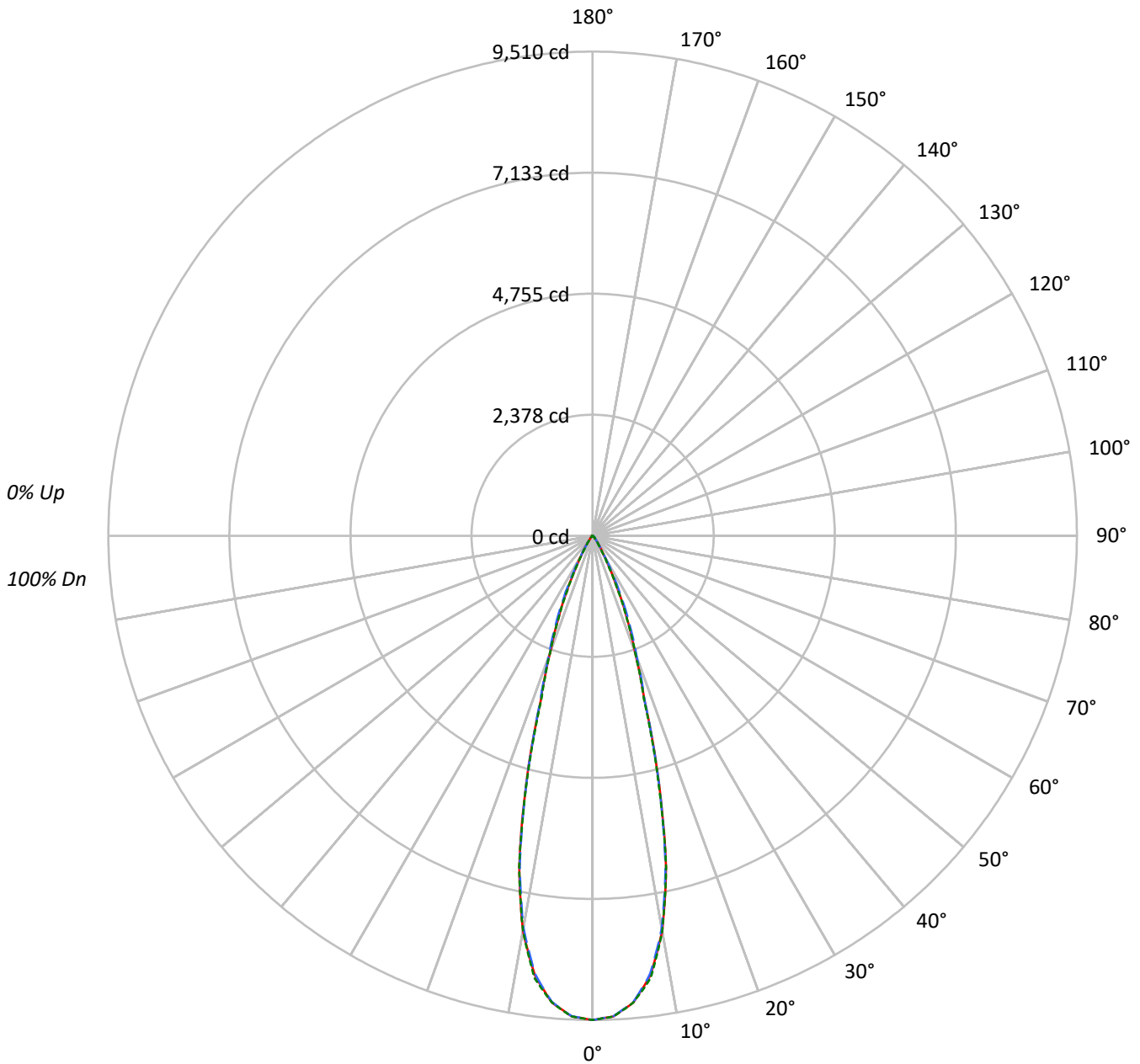


Downlight

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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									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°	727943	727943	727943
5°	707043	706221	707081
10°	612412	608091	612265
15°	399570	397422	395425
20°	198687	206140	198418
25°	100081	112859	98037
30°	40074	43662	34912
35°	18586	17801	14923
40°	8024	8913	7554
45°	5661	7025	5716
50°	1941	5120	2060
55°	1121	2122	1188
60°	781	934	781
65°	507	507	507
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7025 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	836.3	28.3
10°-20°	1346.8	45.5
20°-30°	582.0	19.7
30°-40°	132.7	4.5
40°-50°	45.5	1.5
50°-60°	11.1	0.4
60°-70°	2.9	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°	2765.1	93.5
0°-40°	2897.8	98.0
0°-60°	2954.4	99.9
0°-90°	2957.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2957.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9510	9510	9510	9510	9510	
5°	9202	9193	9191	9210	9202	837
15°	5042	4982	5015	4999	4990	1350
25°	1185	1230	1336	1199	1161	567
35°	199	203	190	189	160	135
45°	52	65	65	65	53	37
55°	8	9	16	9	9	8
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°	9510.2	9510.2	9510.2	9510.2	9510.2
2.5°	9447.2	9440.6	9444.4	9449.0	9450.9
5°	9202.0	9193.2	9191.3	9210.5	9202.5
7.5°	8707.6	8695.0	8675.8	8719.3	8759.9
10°	7879.3	7865.3	7823.7	7844.2	7877.4
12.5°	6656.4	6611.1	6610.2	6675.5	6666.7
15°	5042.3	4981.6	5015.2	4998.8	4990.0
17.5°	3390.8	3367.4	3412.2	3398.7	3340.3
20°	2439.2	2445.3	2530.7	2487.7	2435.9
22.5°	1779.9	1801.8	1903.2	1792.5	1751.9
25°	1185.0	1229.9	1336.3	1198.6	1160.8
27.5°	728.9	749.4	857.3	719.5	699.0
30°	453.4	443.1	494.0	424.0	395.0
32.5°	297.4	284.4	300.7	269.9	246.5
35°	198.9	203.1	190.5	189.1	159.7
37.5°	124.2	142.9	126.1	134.5	102.7
40°	80.3	103.7	89.2	98.5	75.6
42.5°	65.8	79.8	73.3	78.0	67.2
45°	52.3	64.9	64.9	64.9	52.8
47.5°	28.9	43.4	55.6	44.4	30.8
50°	16.3	21.9	43.0	22.9	17.3
52.5°	11.2	12.6	29.4	13.1	11.7
55°	8.4	8.9	15.9	9.3	8.9
57.5°	6.5	7.0	8.4	7.0	6.5
60°	5.1	5.1	6.1	5.6	5.1
62.5°	3.7	3.7	4.2	3.7	3.7
65°	2.8	2.8	2.8	2.8	2.8
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	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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