

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: P755394

Luminaire Tested: LD4D90BD010-EU4DR3070959050-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755394
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: LD4D90BD010-EU4DR3070959050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8941.7 lumens
Efficiency: N/A
Efficacy: 90.4 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): 98.9
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

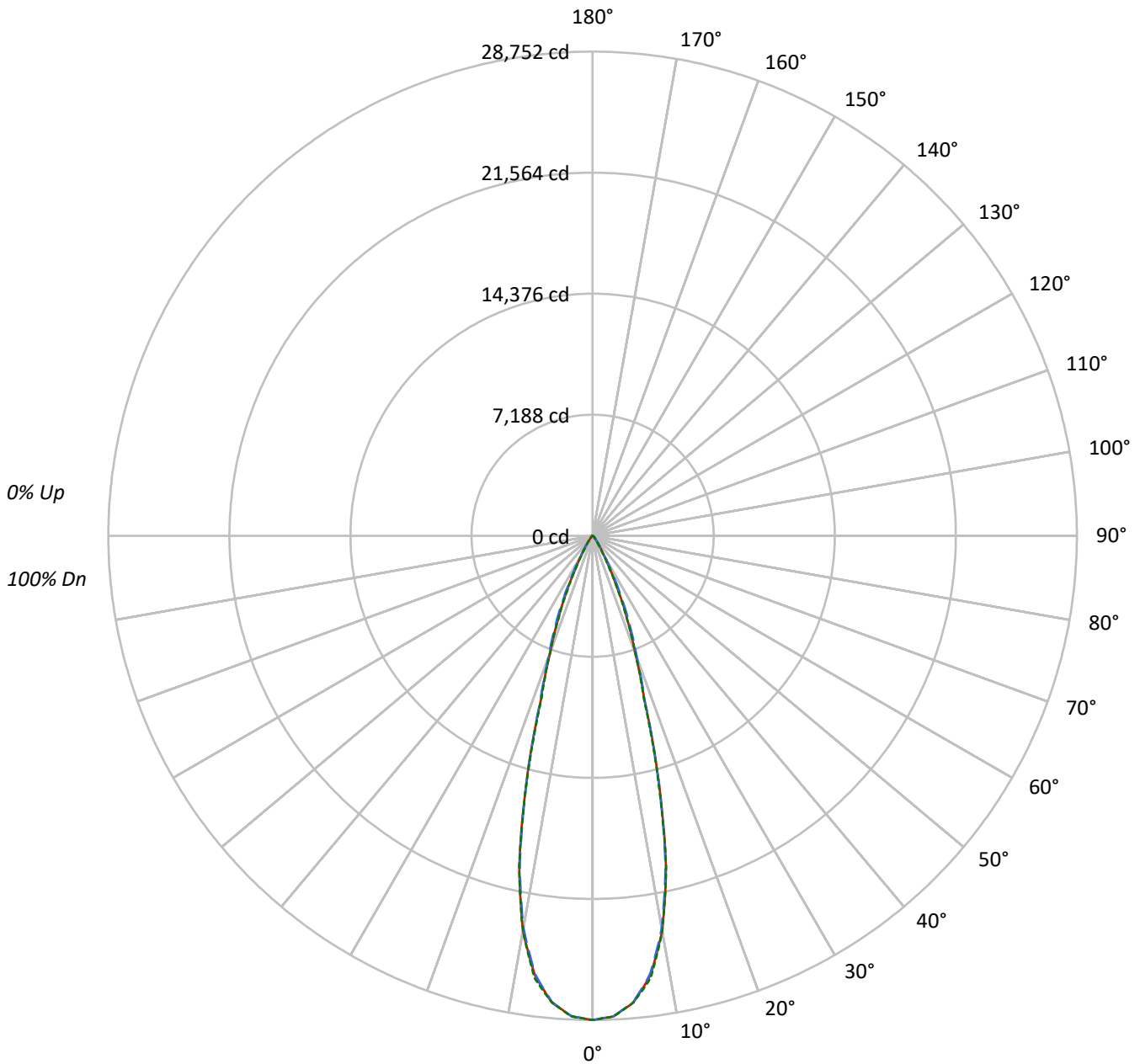


Downlight

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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°	2200760	2200760	2200760
5°	2137587	2135090	2137694
10°	1851468	1838418	1851033
15°	1207997	1201507	1195468
20°	600679	623218	599873
25°	302582	341203	296382
30°	121149	132003	105549
35°	56187	53813	45114
40°	24261	26939	22852
45°	17114	21238	17266
50°	5883	15469	6216
55°	3390	6406	3576
60°	2373	2817	2373
65°	1539	1539	1539
70°	940	627	940
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 21238 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2528.3	28.3
10°-20°	4071.8	45.5
20°-30°	1759.5	19.7
30°-40°	401.0	4.5
40°-50°	137.7	1.5
50°-60°	33.6	0.4
60°-70°	8.7	0.1
70°-80°	0.9	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°	8359.7	93.5
0°-40°	8760.7	98.0
0°-60°	8932.0	99.9
0°-90°	8941.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8941.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28752	28752	28752	28752	28752	
5°	27820	27793	27788	27846	27822	2530
15°	15244	15060	15162	15113	15086	4082
25°	3583	3718	4040	3624	3509	1715
35°	601	614	576	572	483	408
45°	158	196	196	196	160	112
55°	25	27	48	28	27	25
65°	8	8	8	8	8	8
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°	28751.8	28751.8	28751.8	28751.8	28751.8
2.5°	28561.3	28541.5	28552.8	28566.9	28572.5
5°	27820.2	27793.3	27787.7	27845.6	27821.6
7.5°	26325.2	26287.1	26229.3	26360.5	26483.3
10°	23821.0	23778.7	23653.1	23715.2	23815.4
12.5°	20124.0	19987.1	19984.3	20181.9	20155.1
15°	15244.1	15060.5	15162.2	15112.8	15086.0
17.5°	10251.2	10180.6	10316.1	10275.2	10098.7
20°	7374.3	7392.6	7651.0	7521.1	7364.4
22.5°	5381.1	5447.4	5753.8	5419.2	5296.4
25°	3582.7	3718.2	4040.0	3623.6	3509.3
27.5°	2203.5	2265.6	2591.7	2175.3	2113.2
30°	1370.7	1339.6	1493.5	1281.7	1194.2
32.5°	899.2	859.7	909.1	815.9	745.3
35°	601.3	614.1	575.9	571.7	482.8
37.5°	375.5	432.0	381.1	406.5	310.6
40°	242.8	313.4	269.6	297.9	228.7
42.5°	199.0	241.4	221.6	235.7	203.3
45°	158.1	196.2	196.2	196.2	159.5
47.5°	87.5	131.3	168.0	134.1	93.2
50°	49.4	66.3	129.9	69.2	52.2
52.5°	33.9	38.1	88.9	39.5	35.3
55°	25.4	26.8	48.0	28.2	26.8
57.5°	19.8	21.2	25.4	21.2	19.8
60°	15.5	15.5	18.4	16.9	15.5
62.5°	11.3	11.3	12.7	11.3	11.3
65°	8.5	8.5	8.5	8.5	8.5
67.5°	4.2	5.6	5.6	5.6	5.6
70°	4.2	2.8	2.8	2.8	4.2
72.5°	2.8	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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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