

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: P744149

Luminaire Tested: LD4D20D010-EU4DR3020359040-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744149
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: LD4D20D010-EU4DR3020359040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1953.5 lumens
Efficiency: N/A
Efficacy: 84.6 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): 23.1
Input Voltage (V): NR
Input Current (Ain): 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

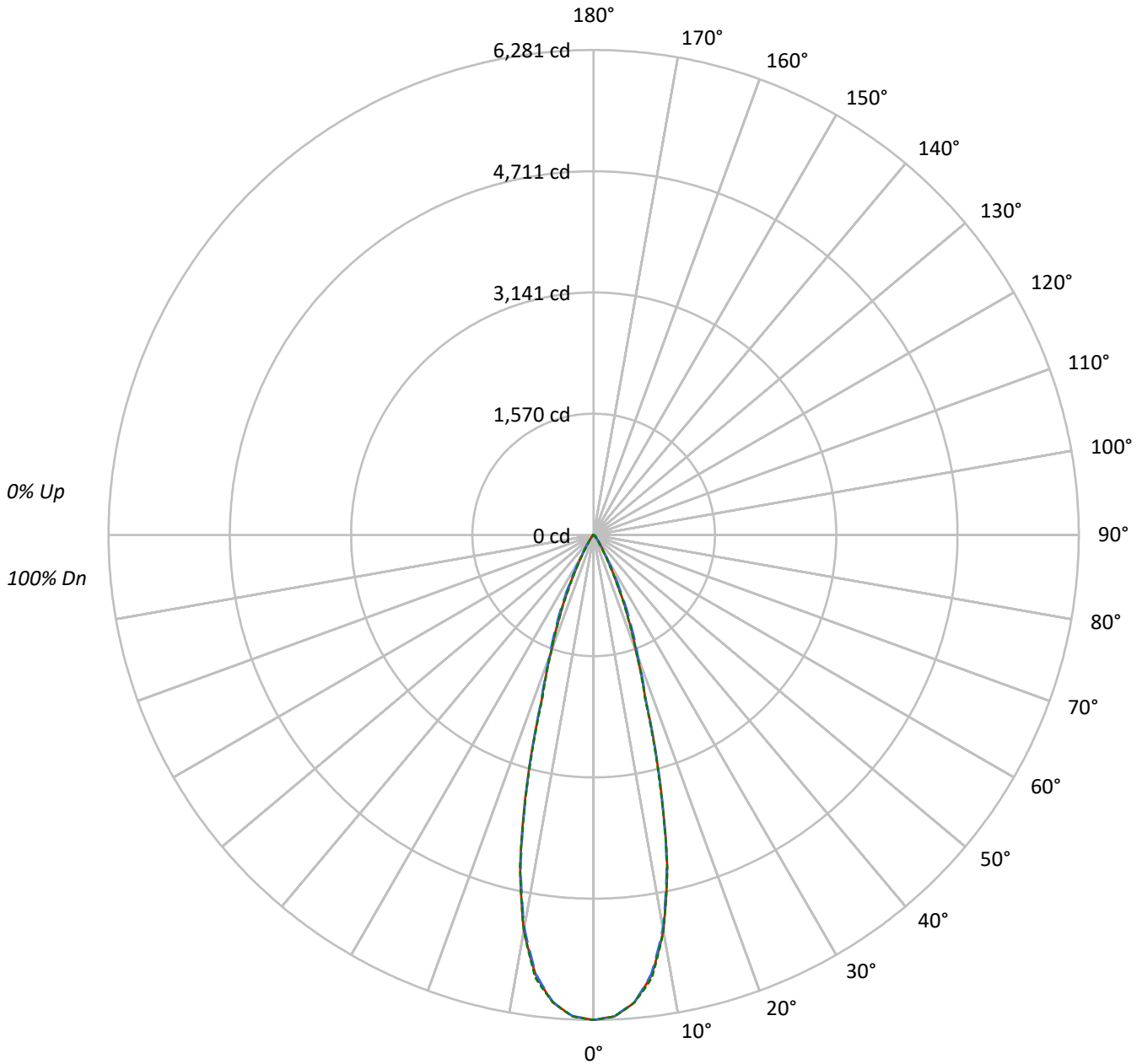


Downlight



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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°	480800	480800	480800
5°	467000	466455	467023
10°	404492	401640	404399
15°	263913	262494	261171
20°	131233	136153	131054
25°	66104	74541	64753
30°	26471	28840	23060
35°	12278	11755	9858
40°	5306	5885	4996
45°	3735	4644	3767
50°	1286	3382	1358
55°	747	1401	774
60°	520	612	520
65°	326	326	326
70°	201	134	201
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4644 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.4	28.3
10°-20°	889.6	45.5
20°-30°	384.4	19.7
30°-40°	87.6	4.5
40°-50°	30.1	1.5
50°-60°	7.3	0.4
60°-70°	1.9	0.1
70°-80°	0.2	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°	1826.3	93.5
0°-40°	1914.0	98.0
0°-60°	1951.4	99.9
0°-90°	1953.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1953.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6281	6281	6281	6281	6281	
5°	6078	6072	6071	6084	6078	553
15°	3330	3290	3312	3302	3296	892
25°	783	812	883	792	767	375
35°	131	134	126	125	106	89
45°	34	43	43	43	35	25
55°	6	6	10	6	6	5
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°	6281.4	6281.4	6281.4	6281.4	6281.4
2.5°	6239.8	6235.5	6237.9	6241.0	6242.3
5°	6077.9	6072.0	6070.8	6083.5	6078.2
7.5°	5751.3	5743.0	5730.3	5759.0	5785.8
10°	5204.2	5194.9	5167.5	5181.1	5203.0
12.5°	4396.5	4366.6	4366.0	4409.1	4403.3
15°	3330.4	3290.3	3312.5	3301.7	3295.8
17.5°	2239.6	2224.1	2253.8	2244.8	2206.3
20°	1611.1	1615.1	1671.5	1643.2	1608.9
22.5°	1175.6	1190.1	1257.1	1183.9	1157.1
25°	782.7	812.3	882.6	791.6	766.7
27.5°	481.4	495.0	566.2	475.3	461.7
30°	299.5	292.7	326.3	280.0	260.9
32.5°	196.5	187.8	198.6	178.2	162.8
35°	131.4	134.1	125.8	124.9	105.5
37.5°	82.0	94.4	83.2	88.8	67.8
40°	53.1	68.5	58.9	65.1	50.0
42.5°	43.5	52.7	48.4	51.5	44.4
45°	34.5	42.9	42.9	42.9	34.8
47.5°	19.1	28.7	36.7	29.3	20.3
50°	10.8	14.5	28.4	15.1	11.4
52.5°	7.4	8.3	19.4	8.7	7.7
55°	5.6	5.8	10.5	6.2	5.8
57.5°	4.3	4.6	5.6	4.6	4.3
60°	3.4	3.4	4.0	3.7	3.4
62.5°	2.5	2.5	2.8	2.5	2.5
65°	1.8	1.8	1.8	1.8	1.8
67.5°	0.9	1.3	1.3	1.3	1.3
70°	0.9	0.6	0.6	0.6	0.9
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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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