

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: P744141

Luminaire Tested: LD4D20D010-EU4DR3020359035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744141
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-EU4DR3020359035-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 2101.0 lumens
Efficiency: N/A
Efficacy: 91.0 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): 23.1
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

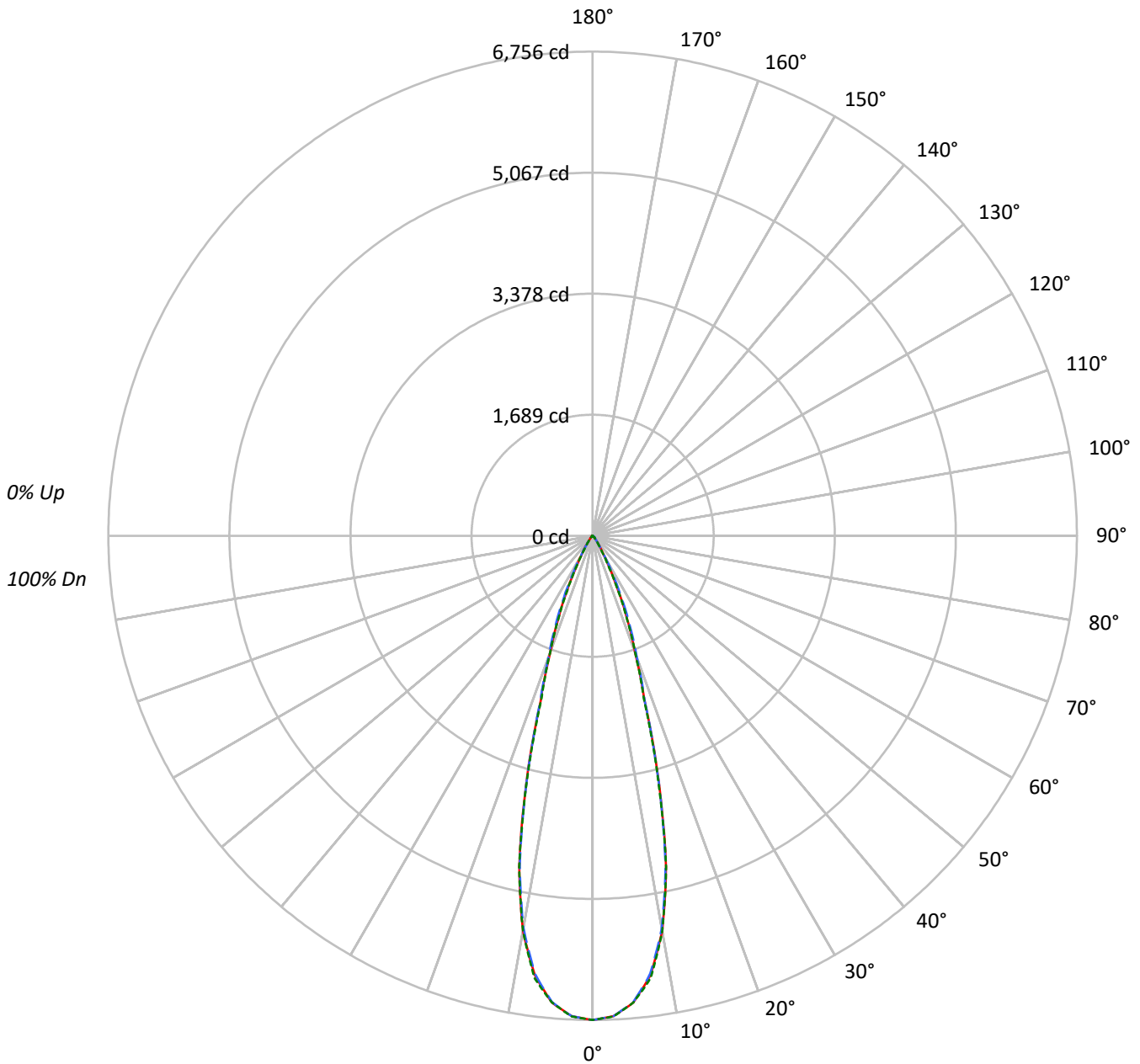


Downlight



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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°	517112	517112	517112
5°	502268	501684	502299
10°	435046	431976	434945
15°	283842	282321	280903
20°	141138	146433	140951
25°	71095	80174	69643
30°	28469	31014	24801
35°	13203	12643	10596
40°	5705	6335	5366
45°	4016	4990	4059
50°	1381	3632	1465
55°	801	1508	841
60°	566	658	566
65°	362	362	362
70°	224	157	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4990 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.1	28.3
10°-20°	956.8	45.5
20°-30°	413.4	19.7
30°-40°	94.2	4.5
40°-50°	32.4	1.5
50°-60°	7.9	0.4
60°-70°	2.0	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°	1964.3	93.5
0°-40°	2058.5	98.0
0°-60°	2098.8	99.9
0°-90°	2101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6756	6756	6756	6756	6756	
5°	6537	6531	6529	6543	6537	595
15°	3582	3539	3563	3551	3545	959
25°	842	874	949	852	825	403
35°	141	144	135	134	113	96
45°	37	46	46	46	38	26
55°	6	6	11	7	6	6
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°	6755.8	6755.8	6755.8	6755.8	6755.8
2.5°	6711.1	6706.4	6709.1	6712.4	6713.7
5°	6536.9	6530.6	6529.3	6542.9	6537.3
7.5°	6185.7	6176.7	6163.1	6193.9	6222.8
10°	5597.3	5587.3	5557.8	5572.4	5596.0
12.5°	4728.6	4696.4	4695.7	4742.1	4735.8
15°	3581.9	3538.8	3562.7	3551.1	3544.8
17.5°	2408.7	2392.1	2424.0	2414.4	2372.9
20°	1732.7	1737.1	1797.7	1767.3	1730.4
22.5°	1264.4	1280.0	1352.0	1273.4	1244.5
25°	841.8	873.7	949.3	851.5	824.6
27.5°	517.8	532.4	609.0	511.1	496.5
30°	322.1	314.8	350.9	301.2	280.6
32.5°	211.3	202.0	213.6	191.7	175.2
35°	141.3	144.3	135.3	134.4	113.4
37.5°	88.2	101.5	89.6	95.5	73.0
40°	57.1	73.6	63.4	70.0	53.7
42.5°	46.8	56.7	52.1	55.4	47.8
45°	37.1	46.1	46.1	46.1	37.5
47.5°	20.6	30.8	39.5	31.5	21.9
50°	11.6	15.6	30.5	16.3	12.3
52.5°	8.0	8.9	20.9	9.3	8.3
55°	6.0	6.3	11.3	6.6	6.3
57.5°	4.6	5.0	6.0	5.0	4.6
60°	3.7	3.7	4.3	4.0	3.7
62.5°	2.6	2.6	3.0	2.6	2.6
65°	2.0	2.0	2.0	2.0	2.0
67.5°	1.0	1.3	1.3	1.3	1.3
70°	1.0	0.7	0.7	0.7	1.0
72.5°	0.7	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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