

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: P744137

Luminaire Tested: LD4D20D010-EU4DR3020359035-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744137
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-EU4DR3020359035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 1995.9 lumens
Efficiency: N/A
Efficacy: 86.4 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): 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

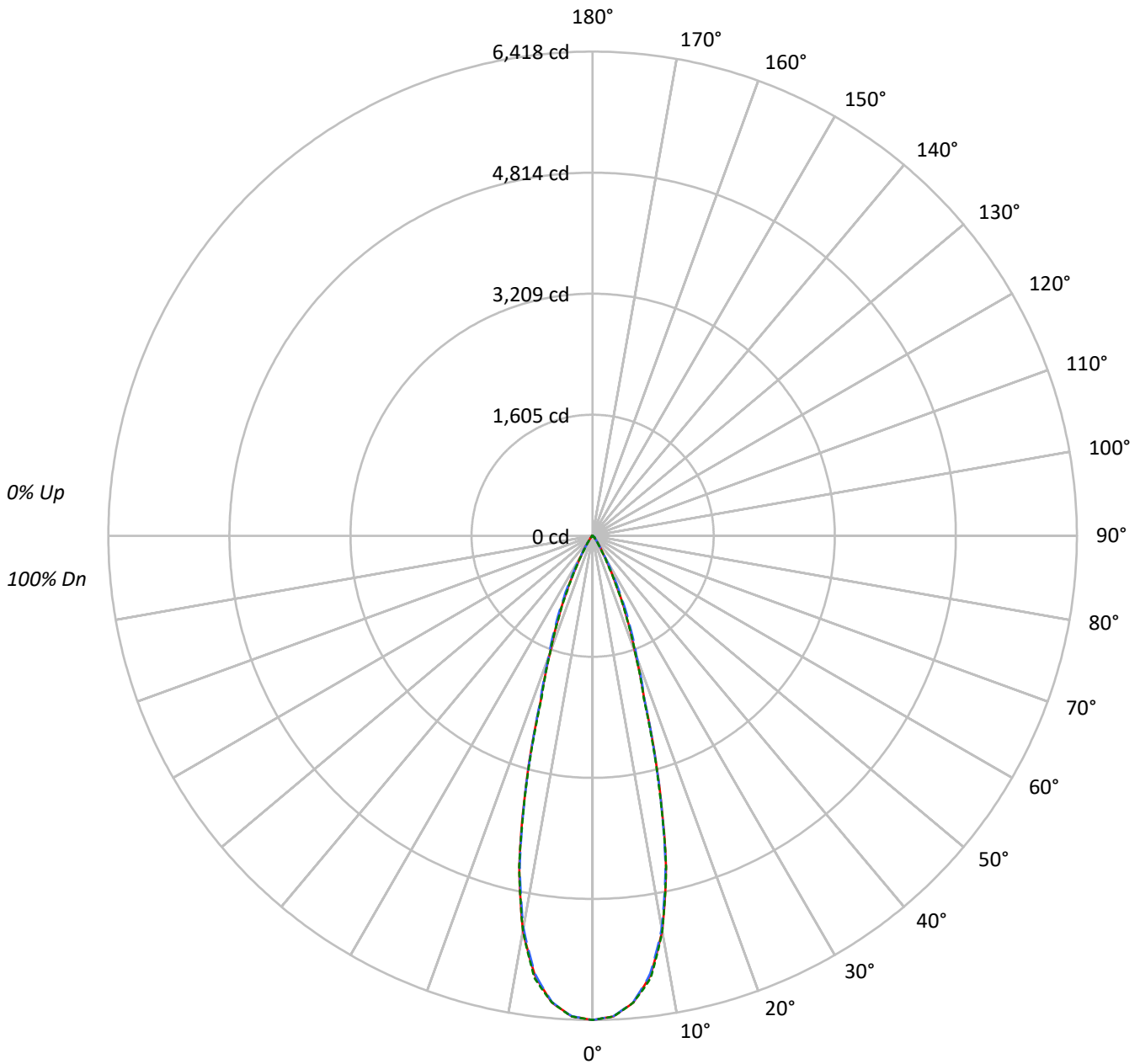


Downlight



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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	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°	491263	491263	491263
5°	477158	476597	477181
10°	413291	410376	413190
15°	269650	268200	266853
20°	134084	139118	133905
25°	67540	76163	66155
30°	27046	29467	23563
35°	12540	12017	10073
40°	5416	6015	5096
45°	3821	4741	3854
50°	1310	3453	1381
55°	761	1428	801
60°	520	628	520
65°	344	344	344
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: 4741 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.4	28.3
10°-20°	908.9	45.5
20°-30°	392.8	19.7
30°-40°	89.5	4.5
40°-50°	30.7	1.5
50°-60°	7.5	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°	1866.1	93.5
0°-40°	1955.6	98.0
0°-60°	1993.8	99.9
0°-90°	1995.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1995.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6418	6418	6418	6418	6418	
5°	6210	6204	6203	6216	6210	565
15°	3403	3362	3384	3374	3368	911
25°	800	830	902	809	783	383
35°	134	137	129	128	108	91
45°	35	44	44	44	36	25
55°	6	6	11	6	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6418.1	6418.1	6418.1	6418.1	6418.1
2.5°	6375.5	6371.1	6373.6	6376.8	6378.0
5°	6210.1	6204.1	6202.8	6215.8	6210.4
7.5°	5876.4	5867.9	5855.0	5884.3	5911.7
10°	5317.4	5307.9	5279.9	5293.8	5316.1
12.5°	4492.2	4461.6	4460.9	4505.1	4499.1
15°	3402.8	3361.8	3384.5	3373.5	3367.5
17.5°	2288.3	2272.6	2302.8	2293.6	2254.3
20°	1646.1	1650.2	1707.9	1678.9	1643.9
22.5°	1201.2	1216.0	1284.4	1209.7	1182.3
25°	799.7	830.0	901.8	808.9	783.3
27.5°	491.9	505.7	578.5	485.6	471.7
30°	306.0	299.0	333.4	286.1	266.6
32.5°	200.7	191.9	202.9	182.1	166.4
35°	134.2	137.0	128.6	127.6	107.8
37.5°	83.8	96.4	85.1	90.8	69.3
40°	54.2	70.0	60.2	66.5	51.0
42.5°	44.4	53.9	49.4	52.6	45.4
45°	35.3	43.8	43.8	43.8	35.6
47.5°	19.5	29.3	37.5	29.9	20.8
50°	11.0	14.8	29.0	15.4	11.6
52.5°	7.6	8.5	19.8	8.8	7.8
55°	5.7	6.0	10.7	6.3	6.0
57.5°	4.4	4.7	5.7	4.7	4.4
60°	3.4	3.4	4.1	3.8	3.4
62.5°	2.5	2.5	2.8	2.5	2.5
65°	1.9	1.9	1.9	1.9	1.9
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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