

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: P740098

Luminaire Tested: LD4D05D010-EU4DR300210IC9030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P740098
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: LD4D05D010-EU4DR300210IC9030-4LBDP1B
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: 499.6 lumens
Efficiency: N/A
Efficacy: 66.6 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): 7.5
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



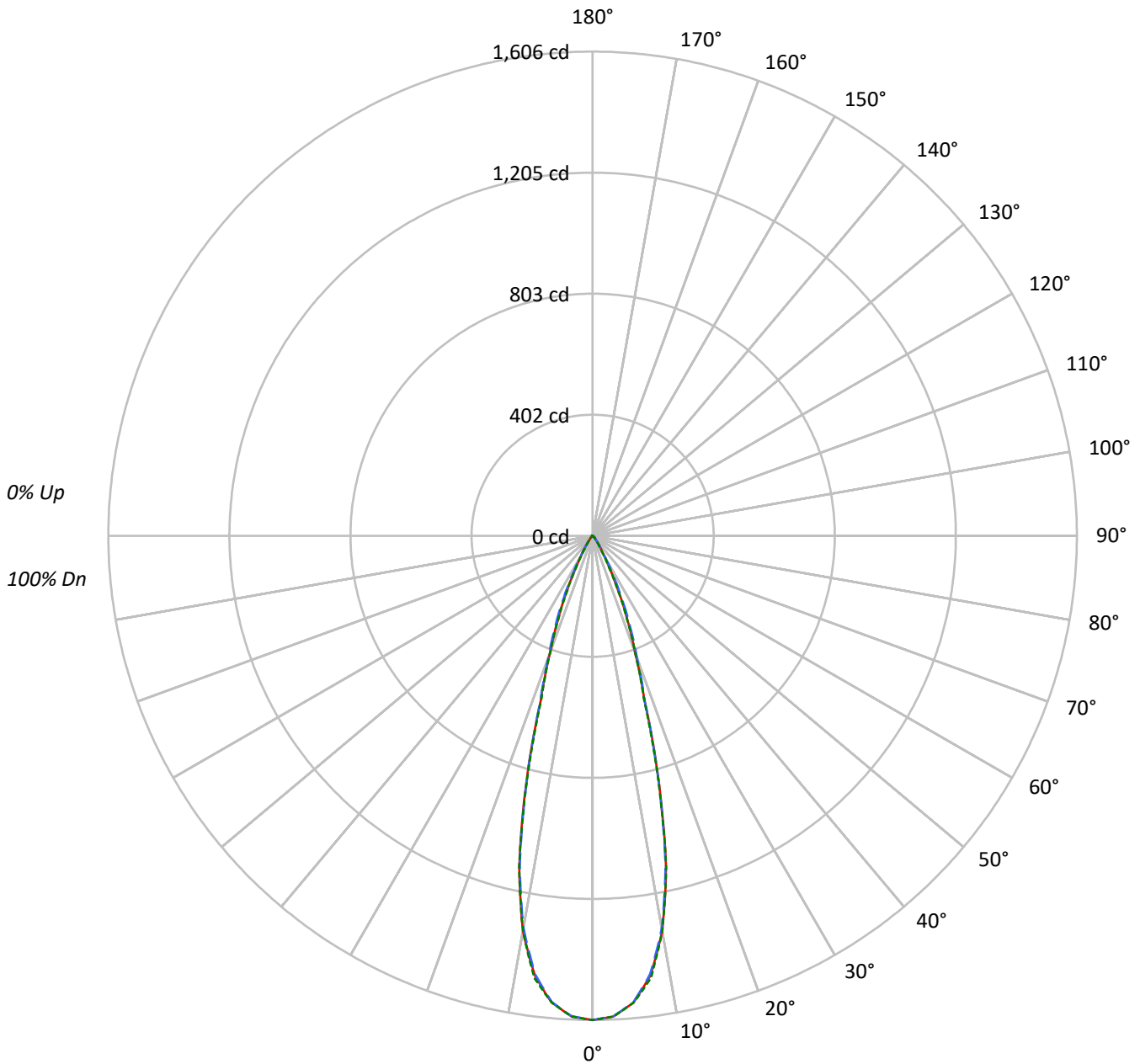
Downlight



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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					70					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								
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°	122952	122952	122952
5°	119418	119288	119434
10°	103443	102713	103412
15°	67484	67127	66786
20°	33560	34814	33511
25°	16900	19062	16562
30°	6770	7371	5895
35°	3140	3009	2523
40°	1359	1509	1279
45°	953	1180	963
50°	333	869	345
55°	187	360	200
60°	138	153	138
65°	91	91	91
70°	45	45	45
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1180 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	28.3
10°-20°	227.5	45.5
20°-30°	98.3	19.7
30°-40°	22.4	4.5
40°-50°	7.7	1.5
50°-60°	1.9	0.4
60°-70°	0.5	0.1
70°-80°	0.1	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°	467.0	93.5
0°-40°	489.4	98.0
0°-60°	499.0	99.9
0°-90°	499.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	499.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1606	1606	1606	1606	1606	
5°	1554	1553	1552	1556	1554	141
15°	852	841	847	844	843	228
25°	200	208	226	202	196	96
35°	34	34	32	32	27	23
45°	9	11	11	11	9	6
55°	1	2	3	2	2	1
65°	0	0	0	0	0	0
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°	1606.3	1606.3	1606.3	1606.3	1606.3
2.5°	1595.7	1594.6	1595.2	1596.0	1596.3
5°	1554.2	1552.8	1552.5	1555.7	1554.4
7.5°	1470.8	1468.6	1465.4	1472.7	1479.6
10°	1330.9	1328.4	1321.5	1324.9	1330.5
12.5°	1124.3	1116.6	1116.5	1127.5	1126.0
15°	851.6	841.4	847.1	844.3	842.8
17.5°	572.7	568.8	576.3	574.0	564.2
20°	412.0	413.0	427.4	420.2	411.4
22.5°	300.6	304.4	321.4	302.7	295.9
25°	200.1	207.8	225.7	202.4	196.1
27.5°	123.1	126.6	144.8	121.5	118.1
30°	76.6	74.8	83.4	71.6	66.7
32.5°	50.2	48.0	50.8	45.6	41.7
35°	33.6	34.3	32.2	31.9	27.0
37.5°	21.0	24.1	21.3	22.7	17.4
40°	13.6	17.5	15.1	16.6	12.8
42.5°	11.1	13.5	12.4	13.2	11.3
45°	8.8	10.9	10.9	10.9	8.9
47.5°	4.9	7.3	9.4	7.5	5.2
50°	2.8	3.7	7.3	3.8	2.9
52.5°	1.9	2.1	5.0	2.2	1.9
55°	1.4	1.5	2.7	1.6	1.5
57.5°	1.1	1.2	1.4	1.2	1.1
60°	0.9	0.9	1.0	1.0	0.9
62.5°	0.6	0.6	0.7	0.6	0.6
65°	0.5	0.5	0.5	0.5	0.5
67.5°	0.2	0.3	0.3	0.3	0.3
70°	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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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