

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: P740114

Luminaire Tested: LD4D05D010-EU4DR300210IC9035-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P740114
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-EU4DR300210IC9035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 584.3 lumens
Efficiency: N/A
Efficacy: 77.9 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



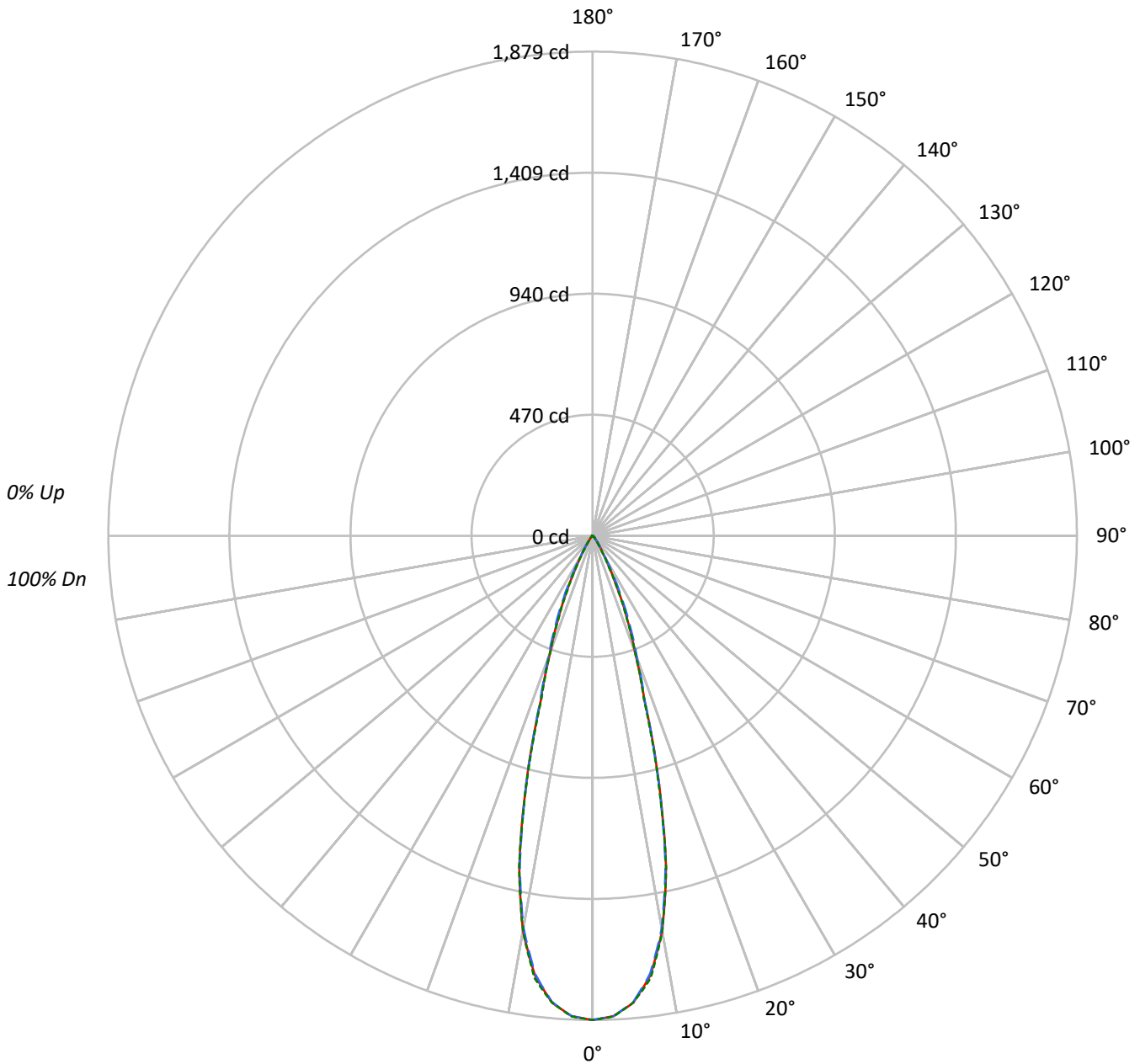
Downlight



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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									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°	143817	143817	143817
5°	139687	139526	139695
10°	120993	120138	120962
15°	78942	78522	78126
20°	39254	40728	39205
25°	19771	22296	19374
30°	7919	8626	6894
35°	3672	3513	2953
40°	1589	1759	1499
45°	1115	1386	1126
50°	381	1012	405
55°	227	427	240
60°	153	184	153
65°	109	109	109
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1386 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	28.3
10°-20°	266.1	45.5
20°-30°	115.0	19.7
30°-40°	26.2	4.5
40°-50°	9.0	1.5
50°-60°	2.2	0.4
60°-70°	0.6	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°	546.3	93.5
0°-40°	572.5	98.0
0°-60°	583.7	99.9
0°-90°	584.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	584.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1879	1879	1879	1879	1879	
5°	1818	1816	1816	1820	1818	165
15°	996	984	991	988	986	267
25°	234	243	264	237	229	112
35°	39	40	38	37	32	27
45°	10	13	13	13	10	7
55°	2	2	3	2	2	2
65°	1	1	1	1	1	1
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°	1878.9	1878.9	1878.9	1878.9	1878.9
2.5°	1866.4	1865.2	1865.9	1866.8	1867.2
5°	1818.0	1816.3	1815.9	1819.7	1818.1
7.5°	1720.3	1717.8	1714.0	1722.6	1730.7
10°	1556.7	1553.9	1545.7	1549.8	1556.3
12.5°	1315.1	1306.2	1305.9	1318.9	1317.1
15°	996.2	984.2	990.9	987.6	985.9
17.5°	669.9	665.3	674.1	671.5	659.9
20°	481.9	483.1	500.0	491.5	481.3
22.5°	351.7	356.0	376.0	354.1	346.1
25°	234.1	243.0	264.0	236.8	229.4
27.5°	144.0	148.1	169.4	142.1	138.1
30°	89.6	87.5	97.6	83.8	78.0
32.5°	58.8	56.2	59.4	53.3	48.7
35°	39.3	40.1	37.6	37.4	31.6
37.5°	24.5	28.2	24.9	26.6	20.3
40°	15.9	20.5	17.6	19.5	15.0
42.5°	13.0	15.8	14.5	15.4	13.3
45°	10.3	12.8	12.8	12.8	10.4
47.5°	5.7	8.6	11.0	8.8	6.1
50°	3.2	4.4	8.5	4.5	3.4
52.5°	2.2	2.5	5.8	2.6	2.3
55°	1.7	1.8	3.2	1.8	1.8
57.5°	1.3	1.4	1.7	1.4	1.3
60°	1.0	1.0	1.2	1.1	1.0
62.5°	0.7	0.7	0.8	0.7	0.7
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.2	0.2	0.2	0.3
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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