

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: P740093

Luminaire Tested: LD4D05D010-EU4DR300210IC9027-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P740093
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-EU4DR300210IC9027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 456.4 lumens
Efficiency: N/A
Efficacy: 60.9 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 (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

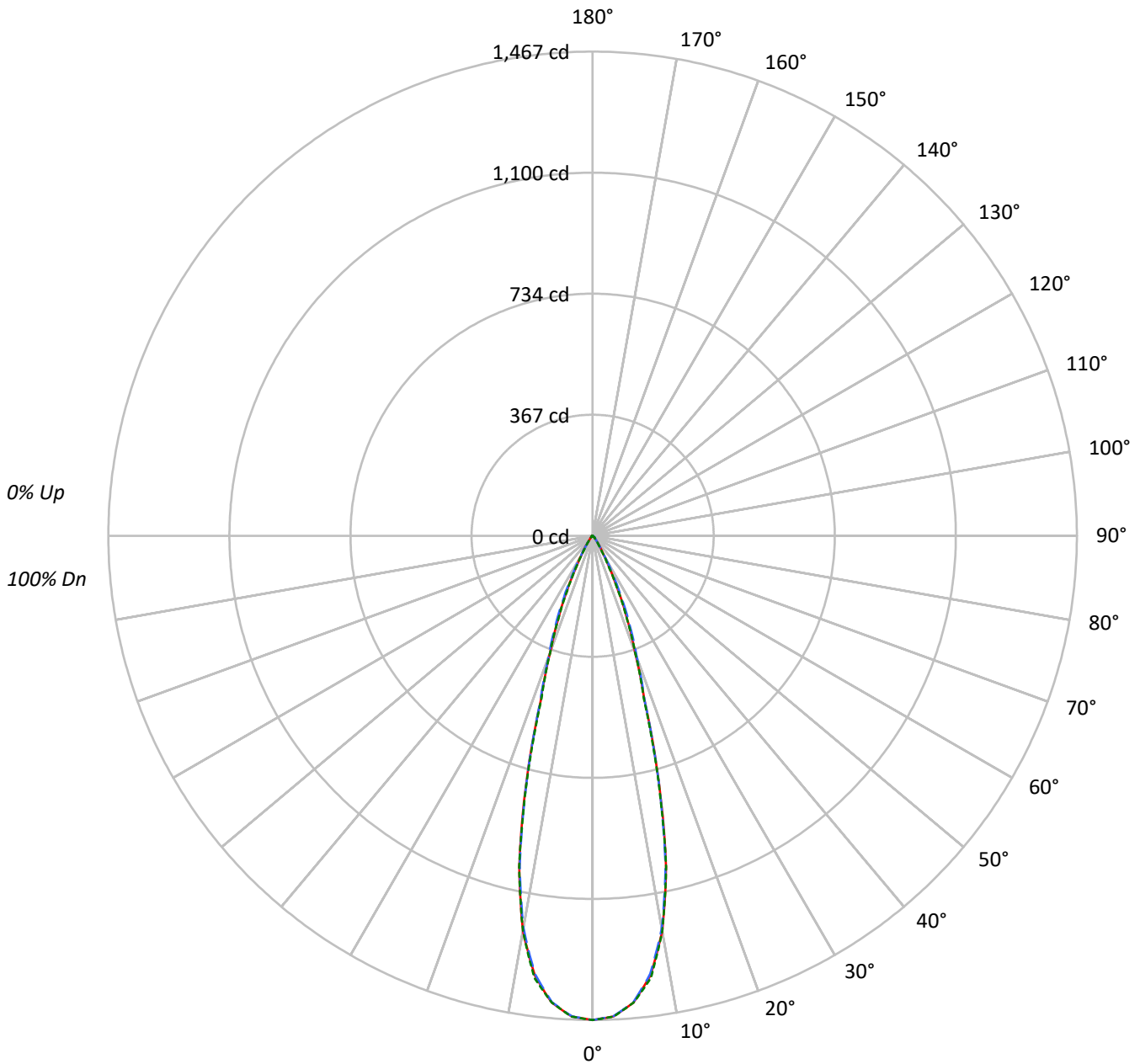


Downlight



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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°	112312	112312	112312
5°	109091	108961	109091
10°	94489	93821	94466
15°	61651	61319	61010
20°	30652	31808	30619
25°	15439	17415	15126
30°	6187	6735	5391
35°	2869	2747	2299
40°	1239	1379	1169
45°	877	1082	877
50°	298	786	322
55°	173	334	187
60°	122	138	122
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: 1082 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	28.3
10°-20°	207.8	45.5
20°-30°	89.8	19.7
30°-40°	20.5	4.5
40°-50°	7.0	1.5
50°-60°	1.7	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°	426.6	93.5
0°-40°	447.1	98.0
0°-60°	455.8	99.9
0°-90°	456.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	456.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1467	1467	1467	1467	1467	
5°	1420	1418	1418	1421	1420	129
15°	778	769	774	771	770	208
25°	183	190	206	185	179	88
35°	31	31	29	29	25	21
45°	8	10	10	10	8	6
55°	1	1	2	1	1	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°	1467.3	1467.3	1467.3	1467.3	1467.3
2.5°	1457.6	1456.6	1457.2	1457.9	1458.2
5°	1419.8	1418.4	1418.1	1421.1	1419.8
7.5°	1343.5	1341.6	1338.6	1345.3	1351.5
10°	1215.7	1213.5	1207.1	1210.3	1215.4
12.5°	1027.0	1020.0	1019.9	1030.0	1028.6
15°	778.0	768.6	773.8	771.2	769.9
17.5°	523.2	519.6	526.5	524.4	515.4
20°	376.3	377.3	390.5	383.8	375.9
22.5°	274.6	278.0	293.6	276.6	270.3
25°	182.8	189.8	206.2	184.9	179.1
27.5°	112.5	115.6	132.3	111.0	107.8
30°	70.0	68.4	76.2	65.4	61.0
32.5°	45.9	43.9	46.4	41.7	38.0
35°	30.7	31.3	29.4	29.2	24.6
37.5°	19.1	22.1	19.4	20.7	15.9
40°	12.4	16.0	13.8	15.2	11.7
42.5°	10.1	12.3	11.3	12.0	10.4
45°	8.1	10.0	10.0	10.0	8.1
47.5°	4.5	6.7	8.6	6.8	4.8
50°	2.5	3.4	6.6	3.6	2.7
52.5°	1.7	1.9	4.5	2.0	1.8
55°	1.3	1.4	2.5	1.4	1.4
57.5°	1.0	1.1	1.3	1.1	1.0
60°	0.8	0.8	0.9	0.9	0.8
62.5°	0.6	0.6	0.6	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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