

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: P740081

Luminaire Tested: LD4D05D010-EU4DR300210IC9024-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P740081
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-EU4DR300210IC9024-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 455.2 lumens
Efficiency: N/A
Efficacy: 60.7 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



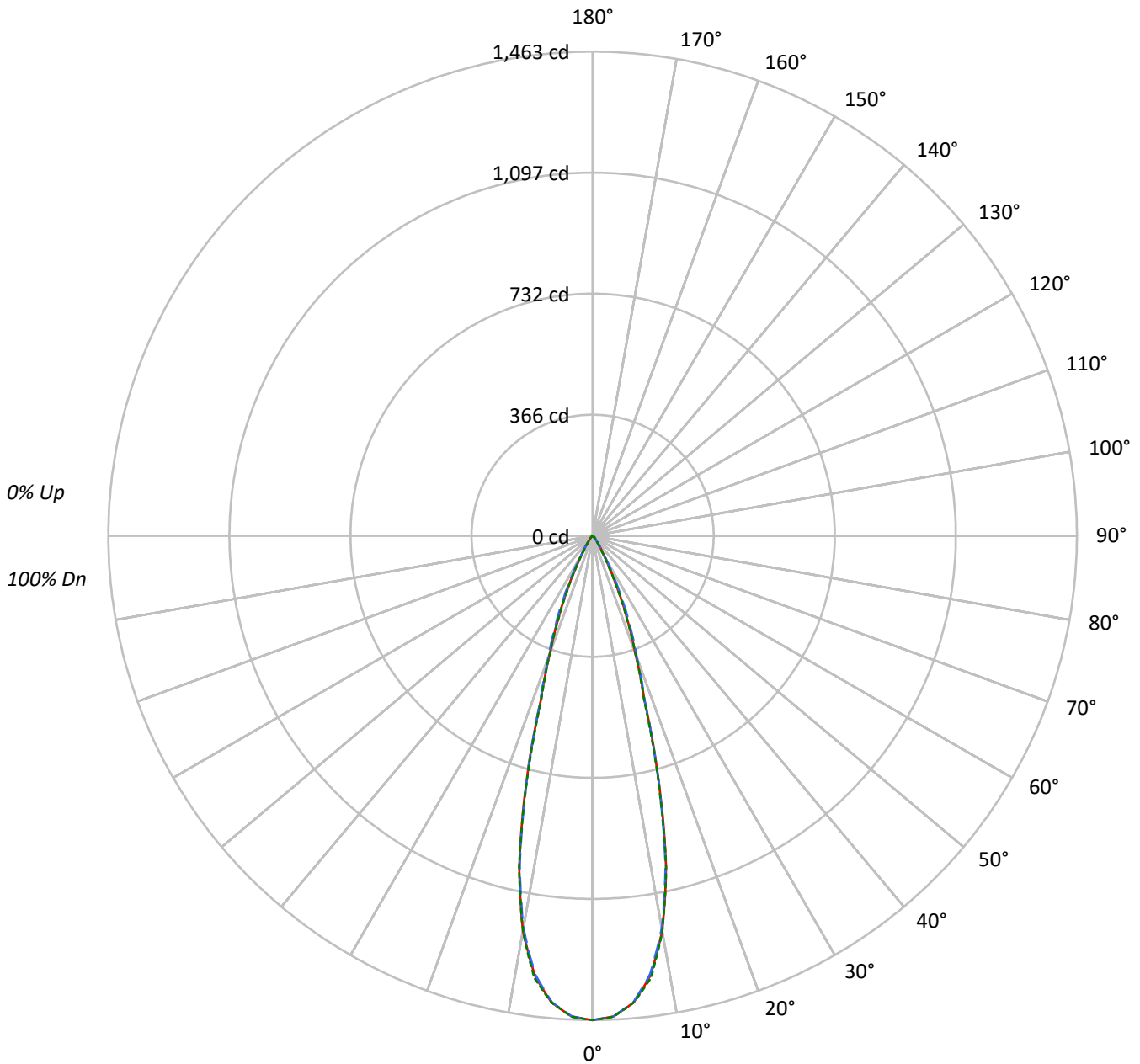
Downlight



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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																			
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°	112014	112014	112014
5°	108799	108677	108807
10°	94241	93572	94217
15°	61485	61160	60851
20°	30570	31719	30530
25°	15405	17364	15084
30°	6169	6717	5374
35°	2859	2738	2299
40°	1239	1379	1159
45°	866	1082	877
50°	298	786	310
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°	128.7	28.3
10°-20°	207.3	45.5
20°-30°	89.6	19.7
30°-40°	20.4	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°	425.5	93.5
0°-40°	445.9	98.0
0°-60°	454.6	99.9
0°-90°	455.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	455.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1416	1415	1414	1417	1416	129
15°	776	767	772	769	768	208
25°	182	189	206	184	179	87
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°	1463.4	1463.4	1463.4	1463.4	1463.4
2.5°	1453.7	1452.7	1453.3	1454.0	1454.3
5°	1416.0	1414.7	1414.4	1417.3	1416.1
7.5°	1340.0	1338.0	1335.0	1341.7	1348.0
10°	1212.5	1210.3	1203.9	1207.1	1212.2
12.5°	1024.3	1017.3	1017.2	1027.2	1025.9
15°	775.9	766.6	771.8	769.2	767.9
17.5°	521.8	518.2	525.1	523.0	514.0
20°	375.3	376.3	389.4	382.8	374.8
22.5°	273.9	277.3	292.8	275.8	269.6
25°	182.4	189.2	205.6	184.4	178.6
27.5°	112.2	115.3	131.9	110.7	107.5
30°	69.8	68.2	76.0	65.3	60.8
32.5°	45.8	43.8	46.3	41.5	37.9
35°	30.6	31.3	29.3	29.1	24.6
37.5°	19.1	22.0	19.4	20.7	15.8
40°	12.4	15.9	13.8	15.2	11.6
42.5°	10.1	12.3	11.3	12.0	10.4
45°	8.0	10.0	10.0	10.0	8.1
47.5°	4.5	6.7	8.5	6.8	4.8
50°	2.5	3.4	6.6	3.5	2.6
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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