

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: P745048

Luminaire Tested: LD4D25D010-EU4DR3020359027-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745048
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: LD4D25D010-EU4DR3020359027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2010.3 lumens
Efficiency: N/A
Efficacy: 80.1 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): 25.1
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



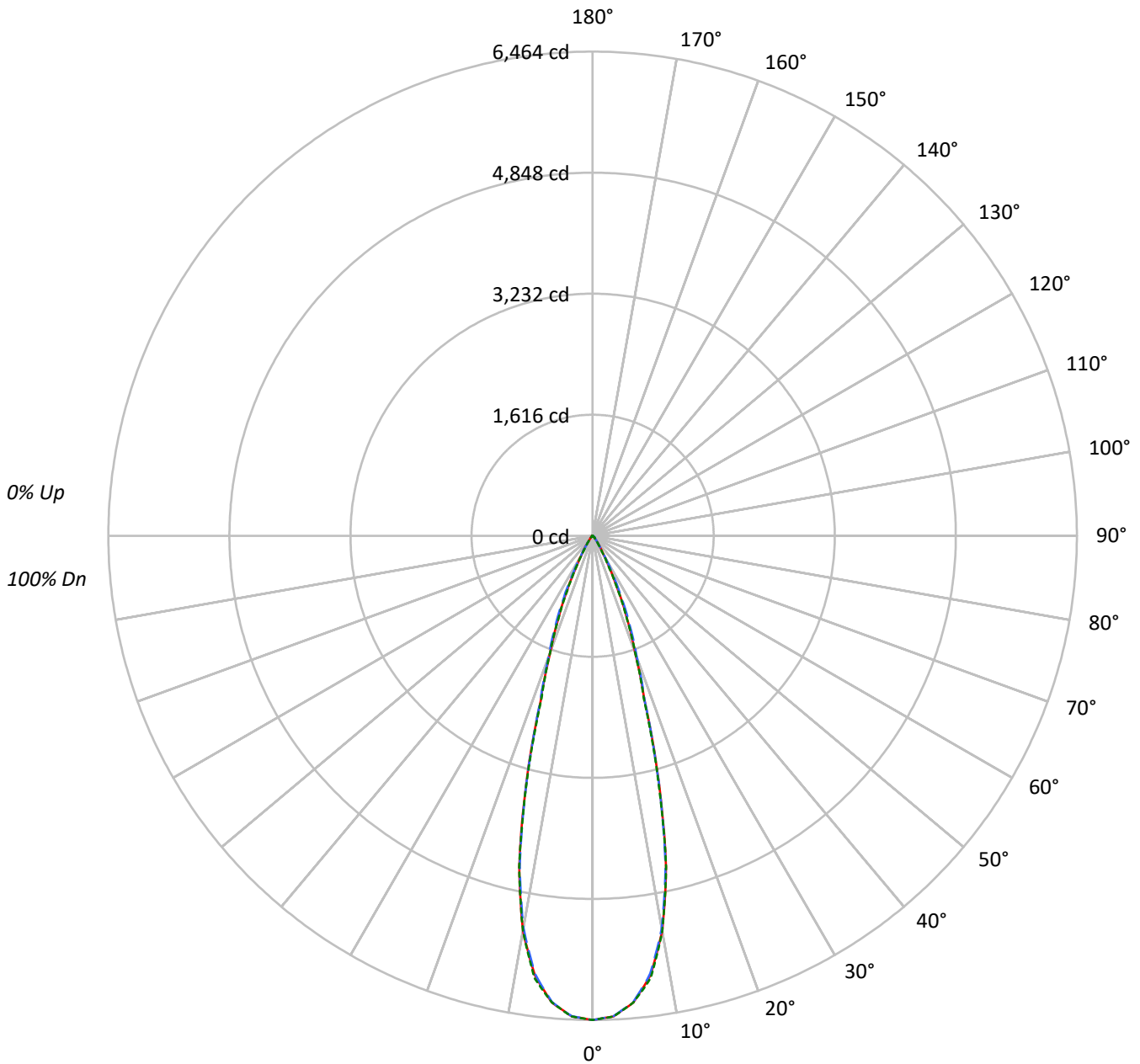
Downlight



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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	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°	494777	494777	494777
5°	480569	480008	480592
10°	416244	413314	416151
15°	271584	270125	268762
20°	135046	140112	134866
25°	68030	76712	66636
30°	27231	29671	23731
35°	12633	12101	10138
40°	5456	6055	5136
45°	3843	4774	3886
50°	1322	3477	1393
55°	761	1441	801
60°	536	628	536
65°	344	344	344
70°	224	134	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4774 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.4	28.3
10°-20°	915.4	45.5
20°-30°	395.6	19.7
30°-40°	90.2	4.5
40°-50°	31.0	1.5
50°-60°	7.6	0.4
60°-70°	2.0	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°	1879.4	93.5
0°-40°	1969.6	98.0
0°-60°	2008.1	99.9
0°-90°	2010.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2010.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6464	6464	6464	6464	6464	
5°	6254	6248	6247	6260	6255	569
15°	3427	3386	3409	3398	3392	918
25°	806	836	908	815	789	386
35°	135	138	130	128	108	92
45°	36	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°	6464.0	6464.0	6464.0	6464.0	6464.0
2.5°	6421.1	6416.6	6419.2	6422.4	6423.6
5°	6254.5	6248.5	6247.2	6260.2	6254.8
7.5°	5918.4	5909.9	5896.8	5926.4	5953.9
10°	5355.4	5345.9	5317.7	5331.6	5354.2
12.5°	4524.2	4493.5	4492.9	4537.3	4531.2
15°	3427.2	3385.9	3408.8	3397.7	3391.6
17.5°	2304.6	2288.8	2319.2	2310.0	2270.4
20°	1657.9	1662.0	1720.1	1690.9	1655.7
22.5°	1209.8	1224.7	1293.6	1218.3	1190.7
25°	805.5	835.9	908.3	814.7	789.0
27.5°	495.4	509.4	582.7	489.1	475.1
30°	308.1	301.2	335.7	288.1	268.5
32.5°	202.1	193.3	204.4	183.5	167.6
35°	135.2	138.0	129.5	128.5	108.5
37.5°	84.4	97.1	85.7	91.4	69.8
40°	54.6	70.5	60.6	67.0	51.4
42.5°	44.7	54.3	49.8	53.0	45.7
45°	35.5	44.1	44.1	44.1	35.9
47.5°	19.7	29.5	37.8	30.1	21.0
50°	11.1	14.9	29.2	15.5	11.7
52.5°	7.6	8.6	20.0	8.9	7.9
55°	5.7	6.0	10.8	6.4	6.0
57.5°	4.5	4.8	5.7	4.8	4.5
60°	3.5	3.5	4.1	3.8	3.5
62.5°	2.5	2.5	2.9	2.5	2.5
65°	1.9	1.9	1.9	1.9	1.9
67.5°	1.0	1.3	1.3	1.3	1.3
70°	1.0	0.6	0.6	0.6	1.0
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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