

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: P745088

Luminaire Tested: LD4D25D010-EU4DR3020359040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745088
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-EU4DR3020359040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2491.4 lumens
Efficiency: N/A
Efficacy: 99.3 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

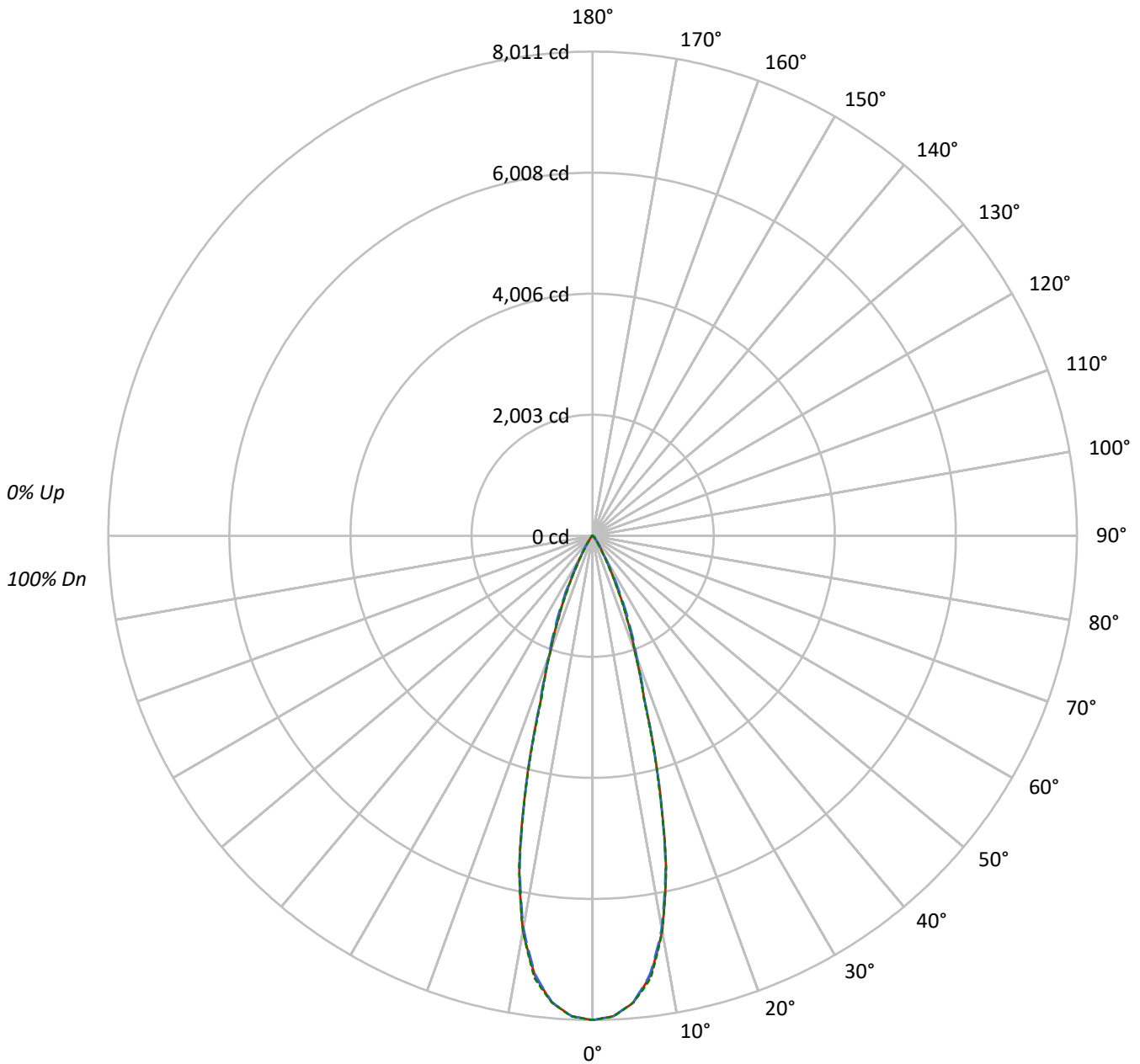


Downlight



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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°	613181	613181	613181
5°	595577	594886	595608
10°	515863	512226	515739
15°	336571	334764	333084
20°	167367	173639	167139
25°	84304	95064	82573
30°	33754	36777	29406
35°	15652	14997	12568
40°	6765	7504	6365
45°	4774	5921	4817
50°	1643	4311	1739
55°	947	1775	988
60°	674	781	674
65°	417	417	417
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5921 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.4	28.3
10°-20°	1134.5	45.5
20°-30°	490.2	19.7
30°-40°	111.7	4.5
40°-50°	38.4	1.5
50°-60°	9.4	0.4
60°-70°	2.4	0.1
70°-80°	0.3	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°	2329.2	93.5
0°-40°	2440.9	98.0
0°-60°	2488.7	99.9
0°-90°	2491.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2491.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8011	8011	8011	8011	8011	
5°	7751	7744	7742	7758	7752	705
15°	4247	4196	4224	4211	4203	1137
25°	998	1036	1126	1010	978	478
35°	168	171	160	159	134	114
45°	44	55	55	55	44	31
55°	7	7	13	8	7	7
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°	8010.9	8010.9	8010.9	8010.9	8010.9
2.5°	7957.8	7952.3	7955.4	7959.4	7960.9
5°	7751.3	7743.8	7742.3	7758.4	7751.7
7.5°	7334.8	7324.1	7308.0	7344.6	7378.9
10°	6637.1	6625.3	6590.3	6607.6	6635.5
12.5°	5607.0	5568.9	5568.1	5623.1	5615.7
15°	4247.3	4196.2	4224.5	4210.7	4203.3
17.5°	2856.2	2836.5	2874.3	2862.9	2813.7
20°	2054.7	2059.8	2131.7	2095.6	2051.9
22.5°	1499.3	1517.7	1603.1	1509.9	1475.7
25°	998.2	1036.0	1125.6	1009.6	977.7
27.5°	614.0	631.3	722.1	606.1	588.8
30°	381.9	373.2	416.1	357.1	332.7
32.5°	250.6	239.6	253.3	227.3	207.7
35°	167.5	171.1	160.5	159.3	134.5
37.5°	104.6	120.4	106.2	113.3	86.5
40°	67.7	87.3	75.1	83.0	63.7
42.5°	55.5	67.3	61.8	65.7	56.7
45°	44.1	54.7	54.7	54.7	44.5
47.5°	24.4	36.6	46.8	37.4	26.0
50°	13.8	18.5	36.2	19.3	14.6
52.5°	9.5	10.6	24.8	11.0	9.9
55°	7.1	7.4	13.3	7.8	7.4
57.5°	5.5	5.9	7.1	5.9	5.5
60°	4.4	4.4	5.1	4.7	4.4
62.5°	3.2	3.2	3.6	3.2	3.2
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.2	1.5	1.5	1.5	1.5
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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