

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: P745037

Luminaire Tested: LD4D25D010-EU4DR3020359024-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745037
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-EU4DR3020359024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2136.9 lumens
Efficiency: N/A
Efficacy: 85.1 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

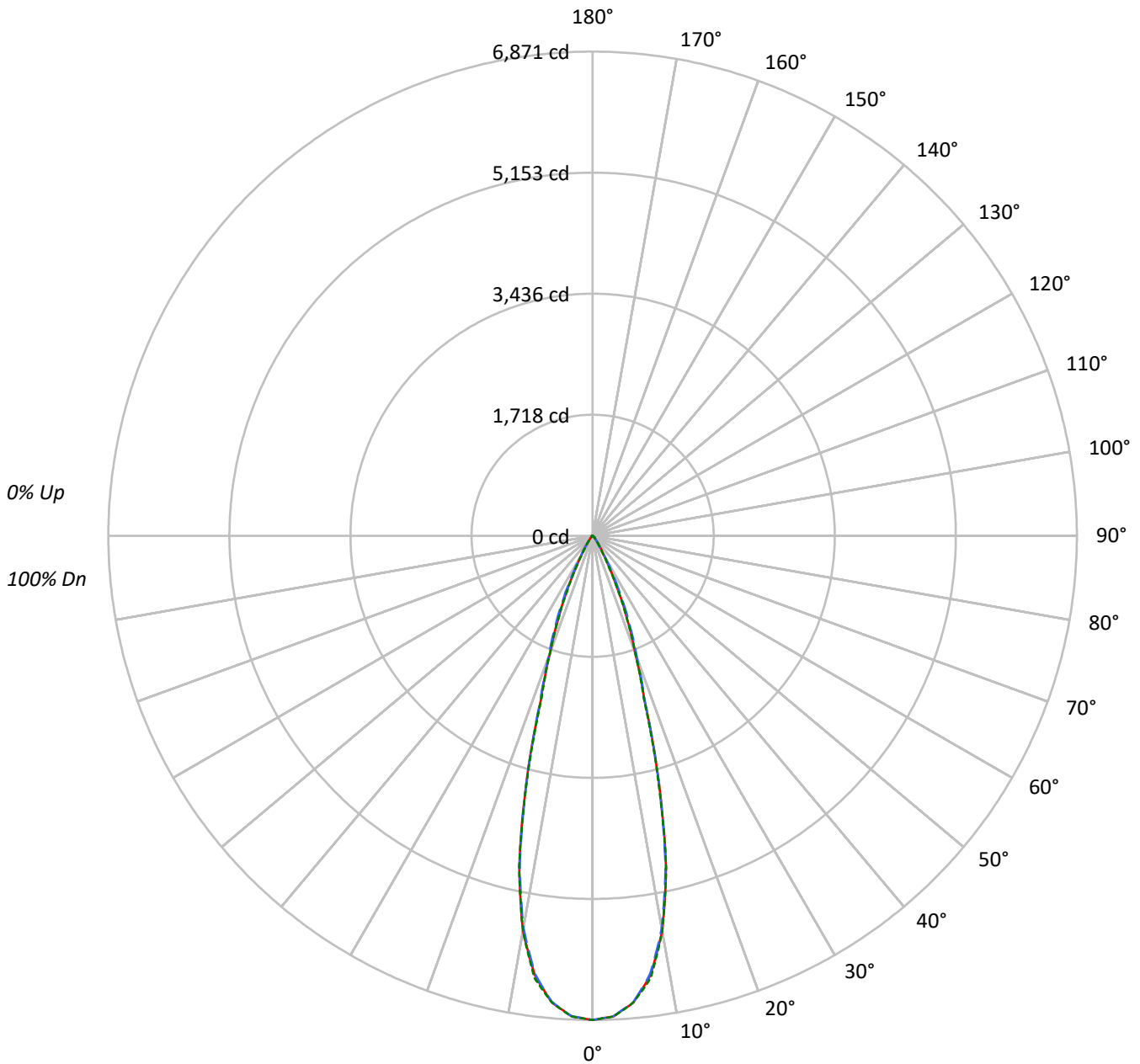


Downlight



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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°	525945	525945	525945
5°	510843	510243	510866
10°	442468	439344	442360
15°	288692	287139	285689
20°	143550	148942	143354
25°	72311	81543	70825
30°	28955	31544	25225
35°	13428	12858	10783
40°	5795	6445	5466
45°	4092	5077	4124
50°	1405	3703	1489
55°	814	1535	854
60°	566	674	566
65°	362	362	362
70°	224	157	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: 5077 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.2	28.3
10°-20°	973.1	45.5
20°-30°	420.5	19.7
30°-40°	95.8	4.5
40°-50°	32.9	1.5
50°-60°	8.0	0.4
60°-70°	2.1	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°	1997.8	93.5
0°-40°	2093.6	98.0
0°-60°	2134.6	99.9
0°-90°	2136.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2136.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6871	6871	6871	6871	6871	
5°	6648	6642	6641	6654	6649	605
15°	3643	3599	3624	3612	3605	975
25°	856	889	966	866	839	410
35°	144	147	138	137	115	97
45°	38	47	47	47	38	27
55°	6	6	12	7	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°	6871.2	6871.2	6871.2	6871.2	6871.2
2.5°	6825.6	6820.9	6823.6	6826.9	6828.3
5°	6648.5	6642.1	6640.7	6654.5	6648.8
7.5°	6291.2	6282.1	6268.3	6299.7	6329.0
10°	5692.8	5682.6	5652.6	5667.5	5691.4
12.5°	4809.2	4776.5	4775.9	4823.1	4816.7
15°	3643.1	3599.2	3623.5	3611.7	3605.2
17.5°	2449.8	2433.0	2465.4	2455.6	2413.4
20°	1762.3	1766.7	1828.5	1797.4	1759.9
22.5°	1286.0	1301.9	1375.0	1295.1	1265.8
25°	856.2	888.6	965.5	866.0	838.6
27.5°	526.6	541.4	619.4	519.8	505.0
30°	327.6	320.2	356.9	306.3	285.4
32.5°	214.9	205.5	217.3	195.0	178.1
35°	143.7	146.7	137.6	136.6	115.4
37.5°	89.7	103.2	91.1	97.2	74.2
40°	58.0	74.9	64.5	71.2	54.7
42.5°	47.6	57.7	52.9	56.3	48.6
45°	37.8	46.9	46.9	46.9	38.1
47.5°	20.9	31.4	40.2	32.0	22.3
50°	11.8	15.9	31.1	16.6	12.5
52.5°	8.1	9.1	21.3	9.5	8.4
55°	6.1	6.4	11.5	6.8	6.4
57.5°	4.7	5.0	6.1	5.0	4.7
60°	3.7	3.7	4.4	4.1	3.7
62.5°	2.7	2.7	3.0	2.7	2.7
65°	2.0	2.0	2.0	2.0	2.0
67.5°	1.0	1.4	1.4	1.4	1.4
70°	1.0	0.7	0.7	0.7	1.0
72.5°	0.7	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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