

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: P780462

Luminaire Tested: LER4D25D010-EC4DR3020359024-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780462
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: LER4D25D010-EC4DR3020359024-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 2243.7 lumens
Efficiency: N/A
Efficacy: 89.4 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 (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



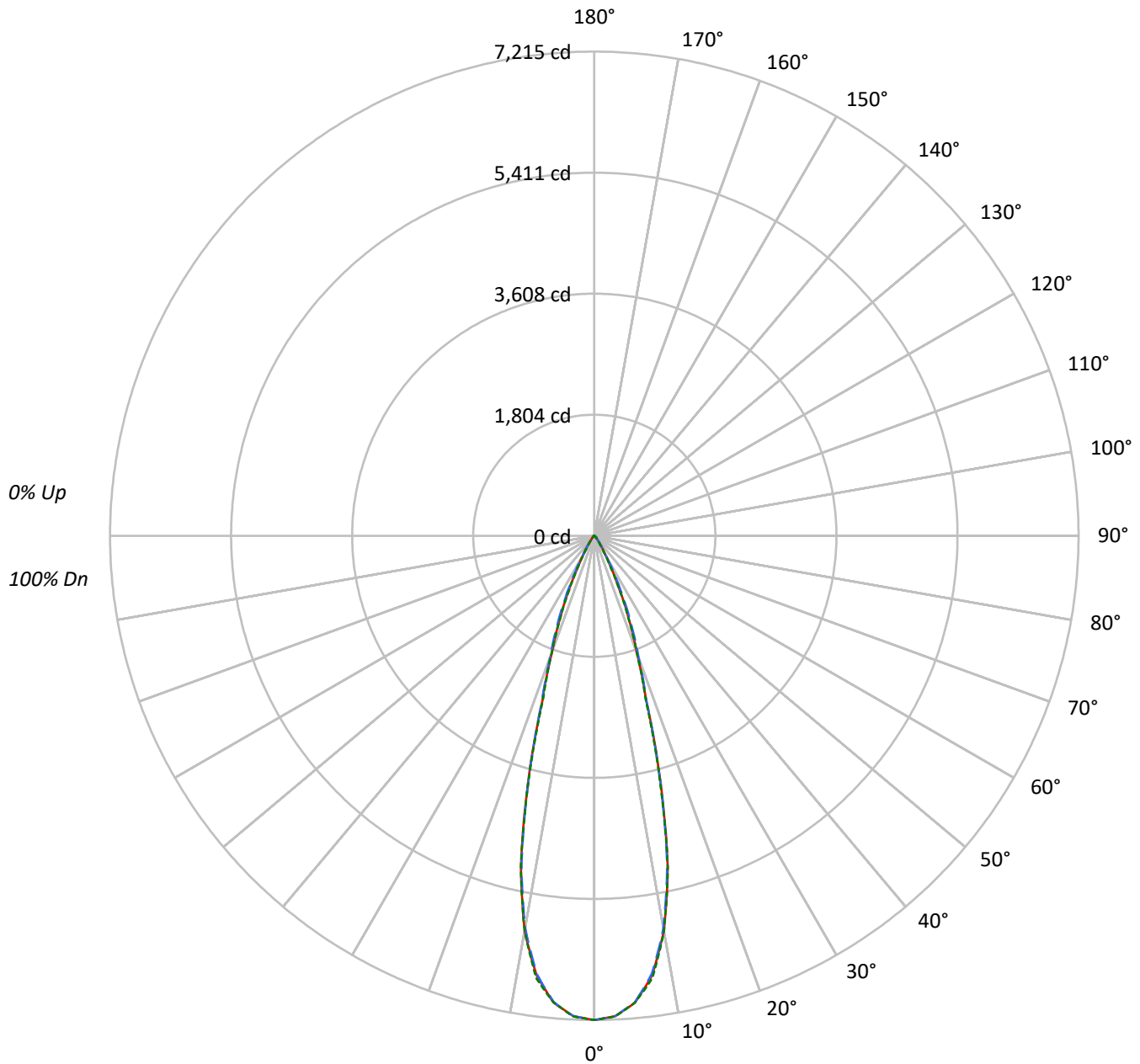
Downlight



TEST NUMBER: P780462

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	98	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	87	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	94	87	82	79	92	86	82	79	85	81	78		84	81	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	552238	552238	552238
5°	536383	535761	536414
10°	464589	461316	464480
15°	303122	301490	299976
20°	150734	156379	150522
25°	75926	85622	74372
30°	30395	33127	26489
35°	14100	13502	11316
40°	6085	6765	5735
45°	4287	5326	4330
50°	1477	3882	1560
55°	854	1601	894
60°	597	704	597
65°	380	380	380
70°	246	157	246
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5326 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.4	28.3
10°-20°	1021.7	45.5
20°-30°	441.5	19.7
30°-40°	100.6	4.5
40°-50°	34.5	1.5
50°-60°	8.4	0.4
60°-70°	2.2	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°	2097.7	93.5
0°-40°	2198.3	98.0
0°-60°	2241.3	99.9
0°-90°	2243.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2243.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7215	7215	7215	7215	7215	
5°	6981	6974	6973	6987	6981	635
15°	3825	3779	3805	3792	3786	1024
25°	899	933	1014	909	881	430
35°	151	154	144	144	121	102
45°	40	49	49	49	40	28
55°	6	7	12	7	7	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7214.7	7214.7	7214.7	7214.7	7214.7
2.5°	7166.9	7161.9	7164.7	7168.3	7169.7
5°	6980.9	6974.2	6972.8	6987.3	6981.3
7.5°	6605.8	6596.2	6581.7	6614.7	6645.5
10°	5977.4	5966.8	5935.3	5950.8	5976.0
12.5°	5049.7	5015.4	5014.6	5064.3	5057.5
15°	3825.2	3779.1	3804.6	3792.2	3785.5
17.5°	2572.3	2554.6	2588.6	2578.3	2534.0
20°	1850.5	1855.0	1919.8	1887.2	1847.9
22.5°	1350.3	1366.9	1443.8	1359.8	1329.0
25°	899.0	933.0	1013.8	909.3	880.6
27.5°	553.0	568.5	650.4	545.9	530.3
30°	343.9	336.2	374.8	321.7	299.7
32.5°	225.6	215.7	228.1	204.7	187.0
35°	150.9	154.1	144.5	143.5	121.1
37.5°	94.3	108.4	95.6	102.0	77.9
40°	60.9	78.6	67.7	74.7	57.4
42.5°	50.0	60.6	55.6	59.1	51.0
45°	39.6	49.2	49.2	49.2	40.0
47.5°	21.9	32.9	42.2	33.6	23.4
50°	12.4	16.7	32.6	17.4	13.1
52.5°	8.5	9.6	22.3	9.9	8.9
55°	6.4	6.7	12.0	7.1	6.7
57.5°	5.0	5.3	6.4	5.3	5.0
60°	3.9	3.9	4.6	4.2	3.9
62.5°	2.8	2.8	3.2	2.8	2.8
65°	2.1	2.1	2.1	2.1	2.1
67.5°	1.1	1.4	1.4	1.4	1.4
70°	1.1	0.7	0.7	0.7	1.1
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)