

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: P780628

Luminaire Tested: LER4D25D010-EC4DR6520359024-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D25D010-EC4DR6520359024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1780.3 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' 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



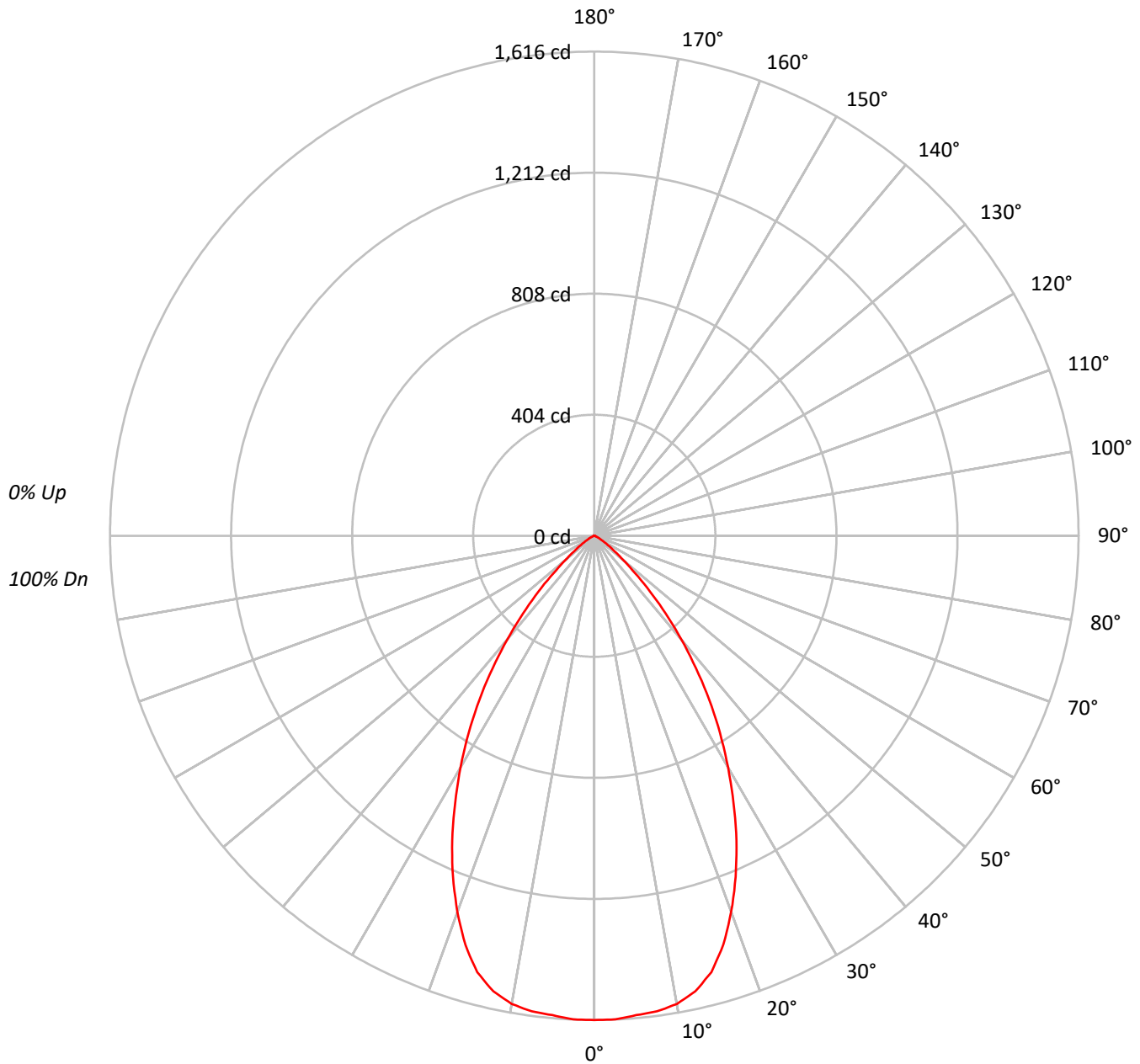
Downlight



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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	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	92	97	93	90		94	91	88		91
3	101	94	88	84	99	92	87	83	90	86	82		87	84	81		85
4	95	87	81	76	93	86	80	76	84	79	75		82	77	74		80
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	64	59	79	69	63	59	68	63	59		67	62	58		66
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62
9	72	61	55	51	71	61	55	51	60	54	51		59	54	50		58
10	68	58	52	47	67	57	51	47	57	51	47		56	51	47		55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	94410
5°	94167
10°	94087
15°	91186
20°	83017
25°	72342
30°	60169
35°	47677
40°	34407
45°	21739
50°	11330
55°	6018
60°	3165
65°	1741
70°	734
75°	812
80°	572
85°	469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21739 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	8.6
10°-20°	418.6	23.5
20°-30°	511.7	28.7
30°-40°	415.2	23.3
40°-50°	206.9	11.6
50°-60°	57.7	3.2
60°-70°	13.1	0.7
70°-80°	3.4	0.2
80°-90°	0.9	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°	1083.1	60.8
0°-40°	1498.3	84.2
0°-60°	1762.9	99.0
0°-90°	1780.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1780.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1616	
5°	1606	153
15°	1508	419
25°	1123	512
35°	669	415
45°	263	207
55°	59	58
65°	13	13
75°	4	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1616.5
2.5°	1615.3
5°	1606.2
7.5°	1601.0
10°	1586.5
12.5°	1557.1
15°	1508.1
17.5°	1431.6
20°	1335.7
22.5°	1232.1
25°	1122.6
27.5°	1005.5
30°	892.2
32.5°	780.3
35°	668.7
37.5°	557.3
40°	451.3
42.5°	352.0
45°	263.2
47.5°	183.4
50°	124.7
52.5°	86.0
55°	59.1
57.5°	39.9
60°	27.1
62.5°	18.8
65°	12.6
67.5°	6.4
70°	4.3
72.5°	4.0
75°	3.6
77.5°	2.3
80°	1.7
82.5°	1.2
85°	0.7
87.5°	0.5
90°	0.0



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— 0°-180°







(END OF REPORT)