

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: P780460

Luminaire Tested: LER4D25D010-EC4DR3020359024-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780460
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-EC4DR3020359024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2003.5 lumens
Efficiency: N/A
Efficacy: 79.8 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



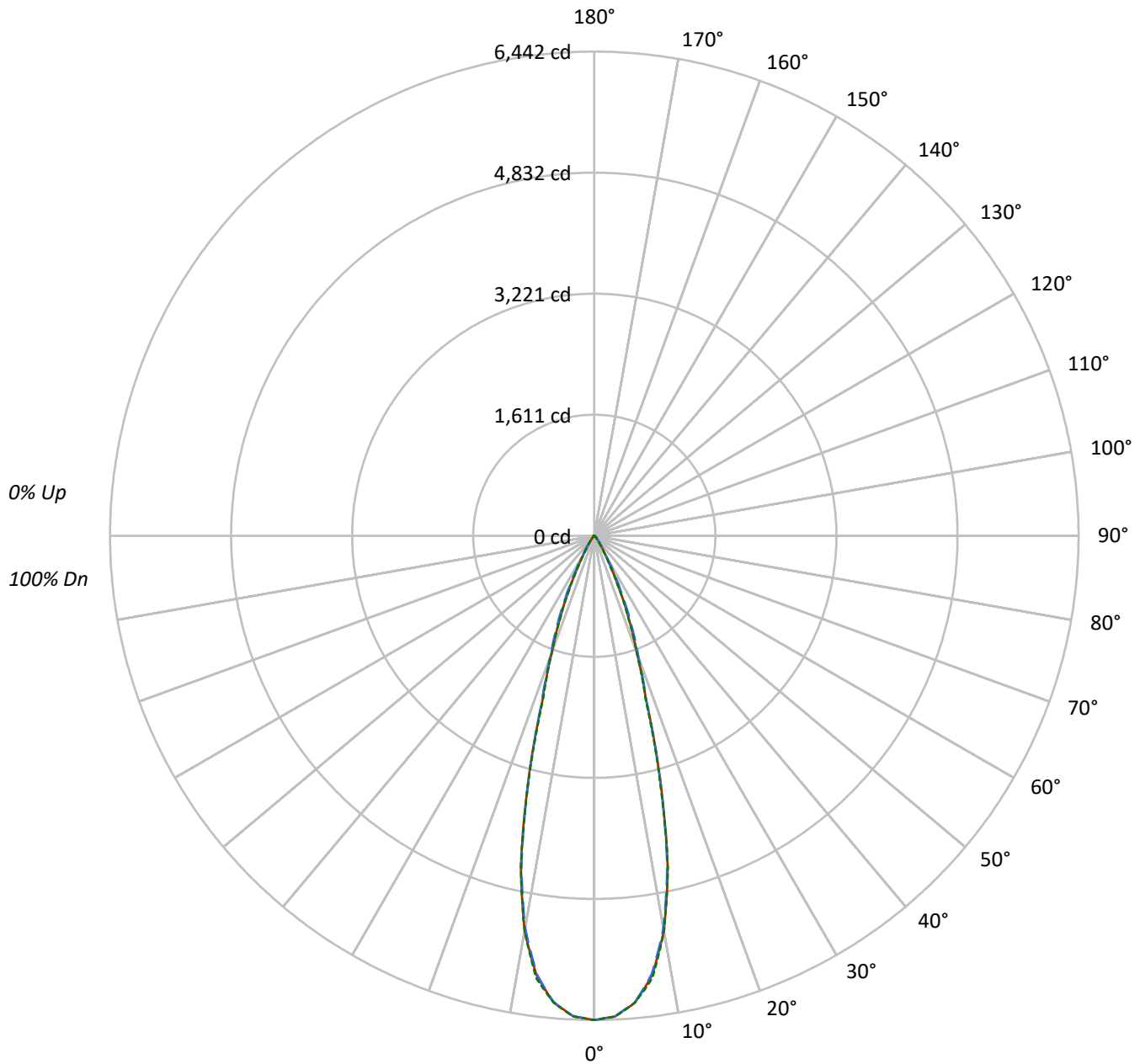
Downlight



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	86	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°	493116	493116	493116
5°	478956	478395	478979
10°	414845	411923	414752
15°	270664	269214	267859
20°	134589	139640	134410
25°	67802	76450	66408
30°	27143	29582	23652
35°	12596	12054	10110
40°	5436	6035	5116
45°	3832	4752	3875
50°	1322	3465	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: 4752 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.5	28.3
10°-20°	912.3	45.5
20°-30°	394.3	19.7
30°-40°	89.9	4.5
40°-50°	30.8	1.5
50°-60°	7.5	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°	1873.1	93.5
0°-40°	1963.0	98.0
0°-60°	2001.3	99.9
0°-90°	2003.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2003.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6442	6442	6442	6442	6442	
5°	6234	6228	6226	6239	6234	567
15°	3416	3374	3397	3386	3380	915
25°	803	833	905	812	786	384
35°	135	138	129	128	108	91
45°	35	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6442.3	6442.3	6442.3	6442.3	6442.3
2.5°	6399.5	6395.1	6397.6	6400.8	6402.1
5°	6233.5	6227.5	6226.2	6239.2	6233.8
7.5°	5898.5	5890.0	5877.0	5906.4	5933.9
10°	5337.4	5327.9	5299.8	5313.7	5336.2
12.5°	4509.1	4478.4	4477.7	4522.0	4516.0
15°	3415.6	3374.5	3397.3	3386.2	3380.2
17.5°	2296.9	2281.1	2311.5	2302.3	2262.8
20°	1652.3	1656.4	1714.3	1685.2	1650.1
22.5°	1205.7	1220.6	1289.2	1214.3	1186.8
25°	802.8	833.1	905.2	811.9	786.3
27.5°	493.7	507.6	580.7	487.4	473.5
30°	307.1	300.2	334.7	287.2	267.6
32.5°	201.4	192.6	203.7	182.8	167.0
35°	134.8	137.6	129.0	128.1	108.2
37.5°	84.1	96.8	85.4	91.1	69.6
40°	54.4	70.2	60.4	66.7	51.2
42.5°	44.6	54.1	49.7	52.8	45.5
45°	35.4	43.9	43.9	43.9	35.8
47.5°	19.6	29.4	37.6	30.0	20.9
50°	11.1	14.8	29.1	15.5	11.7
52.5°	7.6	8.5	19.9	8.9	7.9
55°	5.7	6.0	10.8	6.3	6.0
57.5°	4.4	4.8	5.7	4.8	4.4
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)