

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: P780474

Luminaire Tested: LER4D25D010-EC4DR3020359035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780474
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-EC4DR3020359035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2715.0 lumens
Efficiency: N/A
Efficacy: 108.2 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



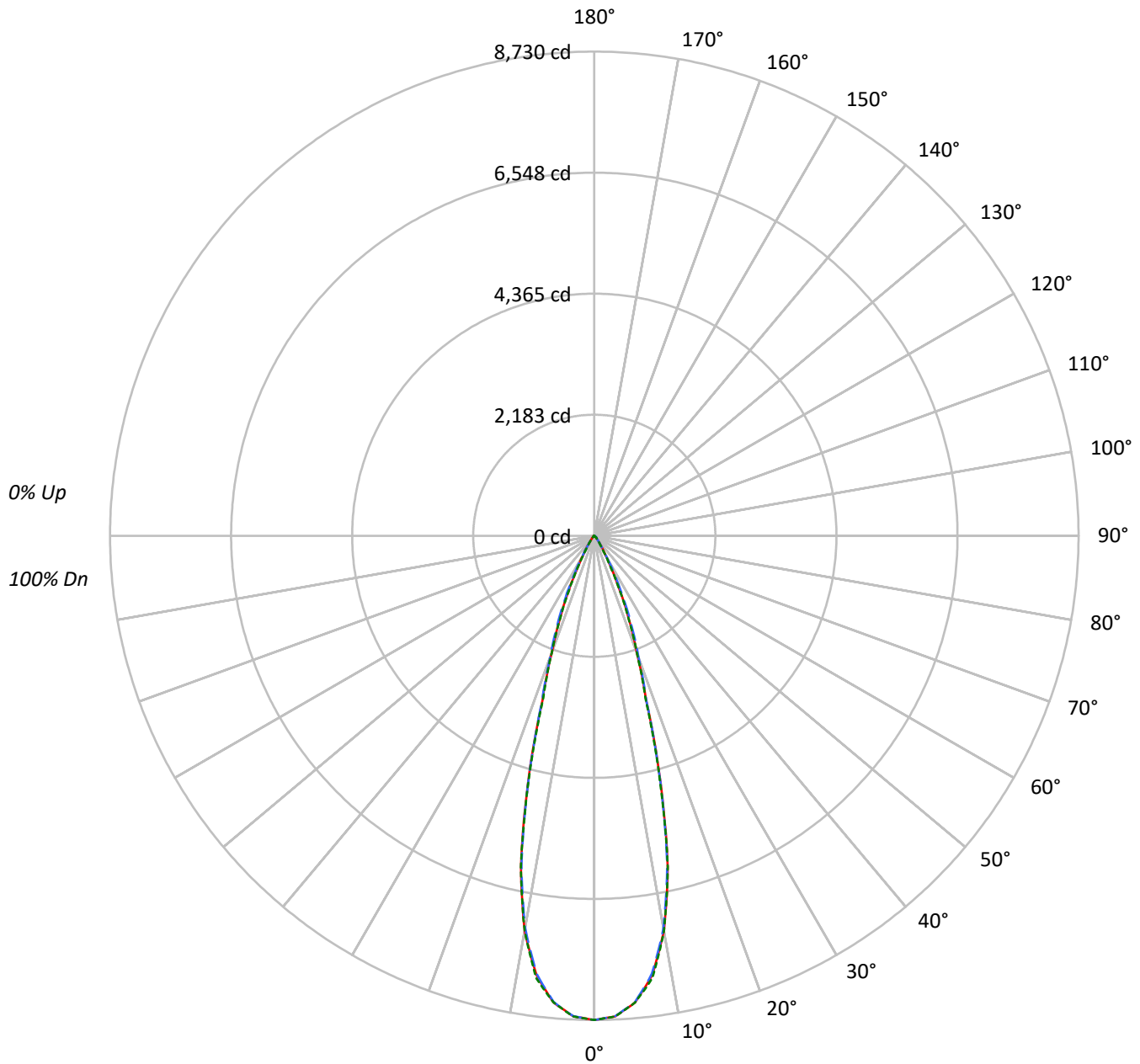
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	668232	668232	668232
5°	649047	648287	649078
10°	562171	558207	562039
15°	366787	364821	362983
20°	182388	189230	182143
25°	91872	103603	89988
30°	36786	40082	32048
35°	17063	16343	13699
40°	7364	8183	6934
45°	5196	6452	5239
50°	1786	4692	1893
55°	1028	1948	1081
60°	720	857	720
65°	471	471	471
70°	291	201	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 6452 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.7	28.3
10°-20°	1236.3	45.5
20°-30°	534.3	19.7
30°-40°	121.8	4.5
40°-50°	41.8	1.5
50°-60°	10.2	0.4
60°-70°	2.6	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°	2538.3	93.5
0°-40°	2660.0	98.0
0°-60°	2712.1	99.9
0°-90°	2715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2715.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8730	8730	8730	8730	8730	
5°	8447	8439	8437	8455	8448	768
15°	4629	4573	4604	4589	4581	1239
25°	1088	1129	1227	1100	1066	521
35°	183	186	175	174	147	124
45°	48	60	60	60	48	34
55°	8	8	15	9	8	8
65°	3	3	3	3	3	3
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°	8730.1	8730.1	8730.1	8730.1	8730.1
2.5°	8672.2	8666.2	8669.6	8673.9	8675.6
5°	8447.2	8439.0	8437.3	8454.9	8447.6
7.5°	7993.2	7981.7	7964.1	8004.0	8041.3
10°	7232.9	7220.0	7181.9	7200.7	7231.2
12.5°	6110.3	6068.8	6067.9	6127.9	6119.8
15°	4628.6	4572.9	4603.8	4588.8	4580.6
17.5°	3112.6	3091.2	3132.3	3119.9	3066.3
20°	2239.1	2244.6	2323.1	2283.7	2236.1
22.5°	1633.9	1654.1	1747.0	1645.5	1608.2
25°	1087.8	1129.0	1226.7	1100.2	1065.5
27.5°	669.1	687.9	786.9	660.5	641.6
30°	416.2	406.7	453.5	389.2	362.6
32.5°	273.0	261.0	276.0	247.7	226.3
35°	182.6	186.4	174.9	173.6	146.6
37.5°	114.0	131.1	115.7	123.4	94.3
40°	73.7	95.2	81.9	90.4	69.4
42.5°	60.4	73.3	67.3	71.6	61.7
45°	48.0	59.6	59.6	59.6	48.4
47.5°	26.6	39.9	51.0	40.7	28.3
50°	15.0	20.2	39.4	21.0	15.9
52.5°	10.3	11.6	27.0	12.0	10.7
55°	7.7	8.1	14.6	8.6	8.1
57.5°	6.0	6.4	7.7	6.4	6.0
60°	4.7	4.7	5.6	5.2	4.7
62.5°	3.4	3.4	3.8	3.4	3.4
65°	2.6	2.6	2.6	2.6	2.6
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)