

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: P780476

Luminaire Tested: LER4D25D010-EC4DR3020359040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780476
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-EC4DR3020359040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2491.4 lumens
Efficiency: N/A
Efficacy: 99.3 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



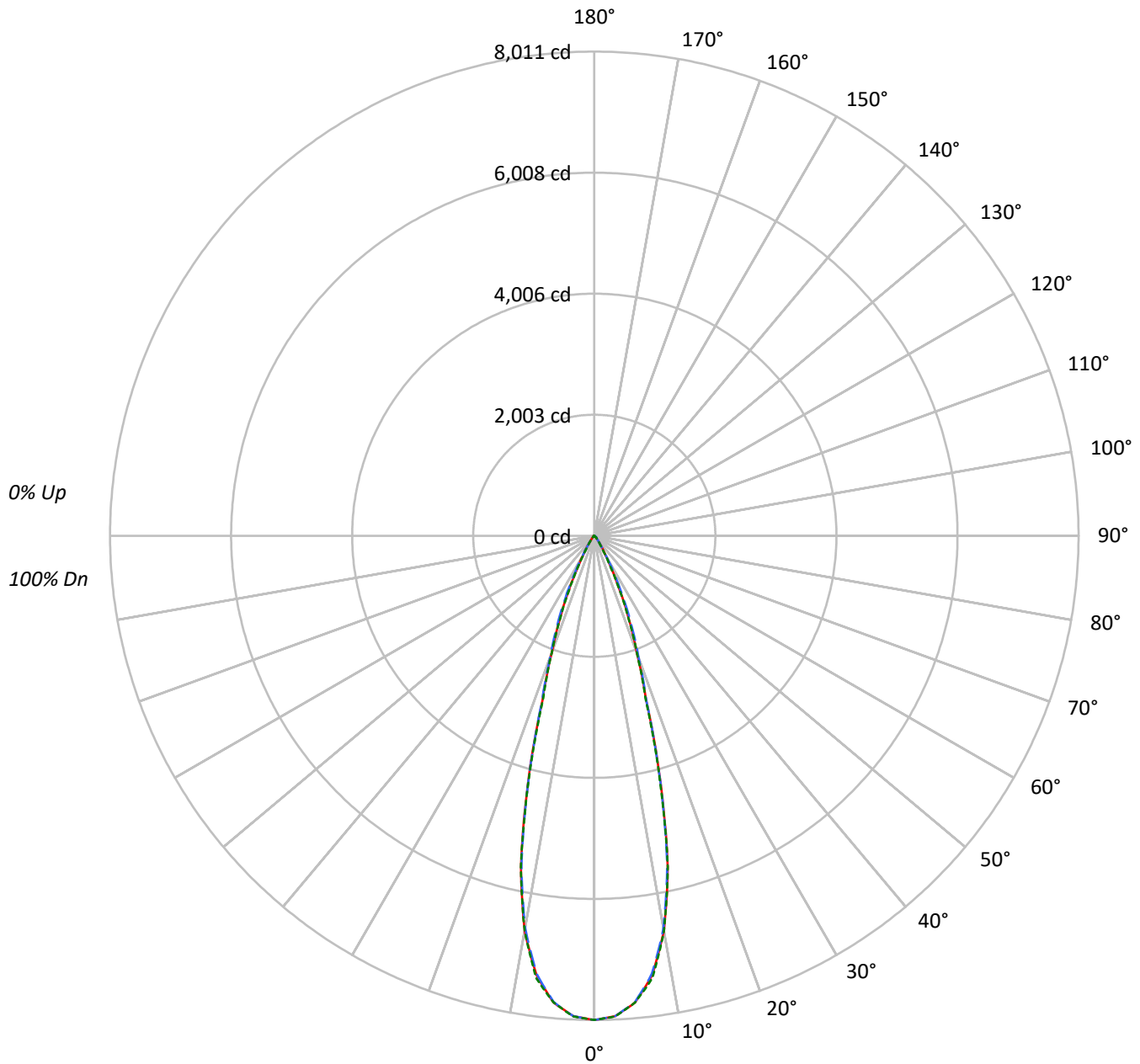
Downlight



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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	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°	613181	613181	613181
5°	595577	594886	595608
10°	515863	512226	515739
15°	336571	334764	333084
20°	167367	173639	167139
25°	84304	95064	82573
30°	33754	36777	29406
35°	15652	14997	12568
40°	6765	7504	6365
45°	4774	5921	4817
50°	1643	4311	1739
55°	947	1775	988
60°	674	781	674
65°	417	417	417
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5921 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.4	28.3
10°-20°	1134.5	45.5
20°-30°	490.2	19.7
30°-40°	111.7	4.5
40°-50°	38.4	1.5
50°-60°	9.4	0.4
60°-70°	2.4	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°	2329.2	93.5
0°-40°	2440.9	98.0
0°-60°	2488.7	99.9
0°-90°	2491.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2491.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8011	8011	8011	8011	8011	
5°	7751	7744	7742	7758	7752	705
15°	4247	4196	4224	4211	4203	1137
25°	998	1036	1126	1010	978	478
35°	168	171	160	159	134	114
45°	44	55	55	55	44	31
55°	7	7	13	8	7	7
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°	8010.9	8010.9	8010.9	8010.9	8010.9
2.5°	7957.8	7952.3	7955.4	7959.4	7960.9
5°	7751.3	7743.8	7742.3	7758.4	7751.7
7.5°	7334.8	7324.1	7308.0	7344.6	7378.9
10°	6637.1	6625.3	6590.3	6607.6	6635.5
12.5°	5607.0	5568.9	5568.1	5623.1	5615.7
15°	4247.3	4196.2	4224.5	4210.7	4203.3
17.5°	2856.2	2836.5	2874.3	2862.9	2813.7
20°	2054.7	2059.8	2131.7	2095.6	2051.9
22.5°	1499.3	1517.7	1603.1	1509.9	1475.7
25°	998.2	1036.0	1125.6	1009.6	977.7
27.5°	614.0	631.3	722.1	606.1	588.8
30°	381.9	373.2	416.1	357.1	332.7
32.5°	250.6	239.6	253.3	227.3	207.7
35°	167.5	171.1	160.5	159.3	134.5
37.5°	104.6	120.4	106.2	113.3	86.5
40°	67.7	87.3	75.1	83.0	63.7
42.5°	55.5	67.3	61.8	65.7	56.7
45°	44.1	54.7	54.7	54.7	44.5
47.5°	24.4	36.6	46.8	37.4	26.0
50°	13.8	18.5	36.2	19.3	14.6
52.5°	9.5	10.6	24.8	11.0	9.9
55°	7.1	7.4	13.3	7.8	7.4
57.5°	5.5	5.9	7.1	5.9	5.5
60°	4.4	4.4	5.1	4.7	4.4
62.5°	3.2	3.2	3.6	3.2	3.2
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.2	1.5	1.5	1.5	1.5
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	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)