

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: P780480

Luminaire Tested: LER4D25D010-EC4DR3020359050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780480
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-EC4DR3020359050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2462.0 lumens
Efficiency: N/A
Efficacy: 98.1 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



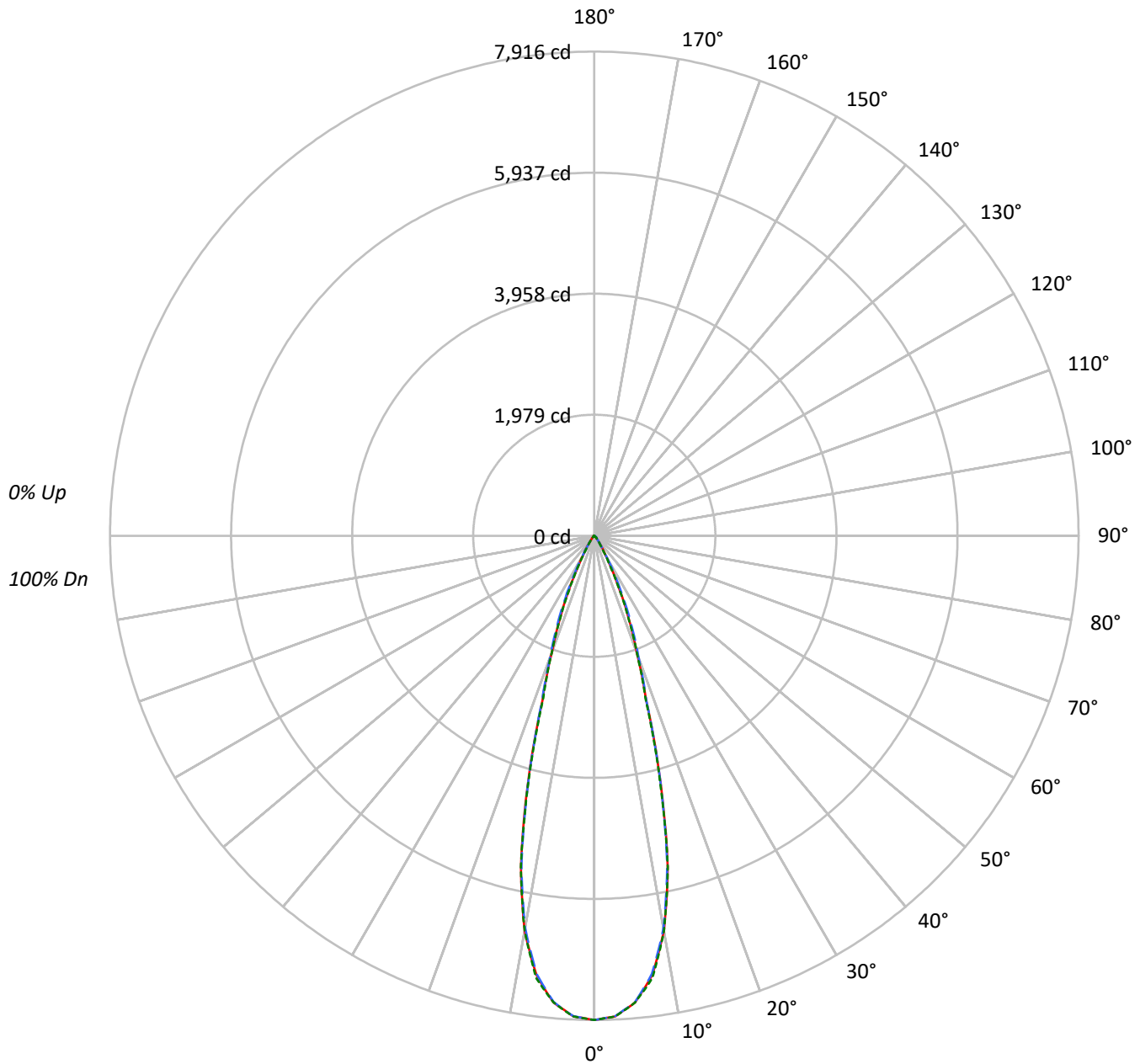
Downlight



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96		
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92		
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89		
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85		
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82		
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79		
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77		
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74		
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72		
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	605948	605948	605948
5°	588554	587871	588585
10°	509777	506187	509661
15°	332609	330818	329154
20°	165388	171595	165168
25°	83308	93949	81602
30°	33356	36344	29061
35°	15474	14820	12418
40°	6685	7424	6295
45°	4709	5845	4752
50°	1619	4263	1715
55°	934	1762	988
60°	658	765	658
65°	417	417	417
70°	246	179	246
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5845 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.1	28.3
10°-20°	1121.1	45.5
20°-30°	484.5	19.7
30°-40°	110.4	4.5
40°-50°	37.9	1.5
50°-60°	9.3	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°	2301.7	93.5
0°-40°	2412.1	98.0
0°-60°	2459.3	99.9
0°-90°	2462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2462.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7916	7916	7916	7916	7916	
5°	7660	7652	7651	7667	7660	697
15°	4197	4147	4175	4161	4154	1124
25°	986	1024	1112	998	966	472
35°	166	169	159	157	133	112
45°	44	54	54	54	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°	7916.4	7916.4	7916.4	7916.4	7916.4
2.5°	7864.0	7858.5	7861.6	7865.5	7867.1
5°	7659.9	7652.5	7651.0	7666.9	7660.3
7.5°	7248.3	7237.8	7221.9	7258.0	7291.8
10°	6558.8	6547.2	6512.6	6529.6	6557.3
12.5°	5540.9	5503.2	5502.4	5556.8	5549.4
15°	4197.3	4146.7	4174.7	4161.1	4153.7
17.5°	2822.5	2803.1	2840.4	2829.1	2780.5
20°	2030.4	2035.5	2106.6	2070.8	2027.7
22.5°	1481.6	1499.9	1584.2	1492.1	1458.3
25°	986.4	1023.7	1112.4	997.7	966.2
27.5°	606.7	623.8	713.6	599.0	581.8
30°	377.4	368.9	411.2	352.9	328.8
32.5°	247.6	236.7	250.3	224.7	205.2
35°	165.6	169.1	158.6	157.4	132.9
37.5°	103.4	118.9	105.0	112.0	85.5
40°	66.9	86.3	74.3	82.0	63.0
42.5°	54.8	66.5	61.0	64.9	56.0
45°	43.5	54.0	54.0	54.0	43.9
47.5°	24.1	36.2	46.2	36.9	25.7
50°	13.6	18.3	35.8	19.0	14.4
52.5°	9.3	10.5	24.5	10.9	9.7
55°	7.0	7.4	13.2	7.8	7.4
57.5°	5.4	5.8	7.0	5.8	5.4
60°	4.3	4.3	5.0	4.6	4.3
62.5°	3.1	3.1	3.5	3.1	3.1
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.1	1.5	1.5	1.5	1.5
70°	1.1	0.8	0.8	0.8	1.1
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)