

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: P780989

Luminaire Tested: LER4D35BD010-EC4DR3020359024-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780989
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: LER4D35BD010-EC4DR3020359024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2814.8 lumens
Efficiency: N/A
Efficacy: 91.4 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): 30.8
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

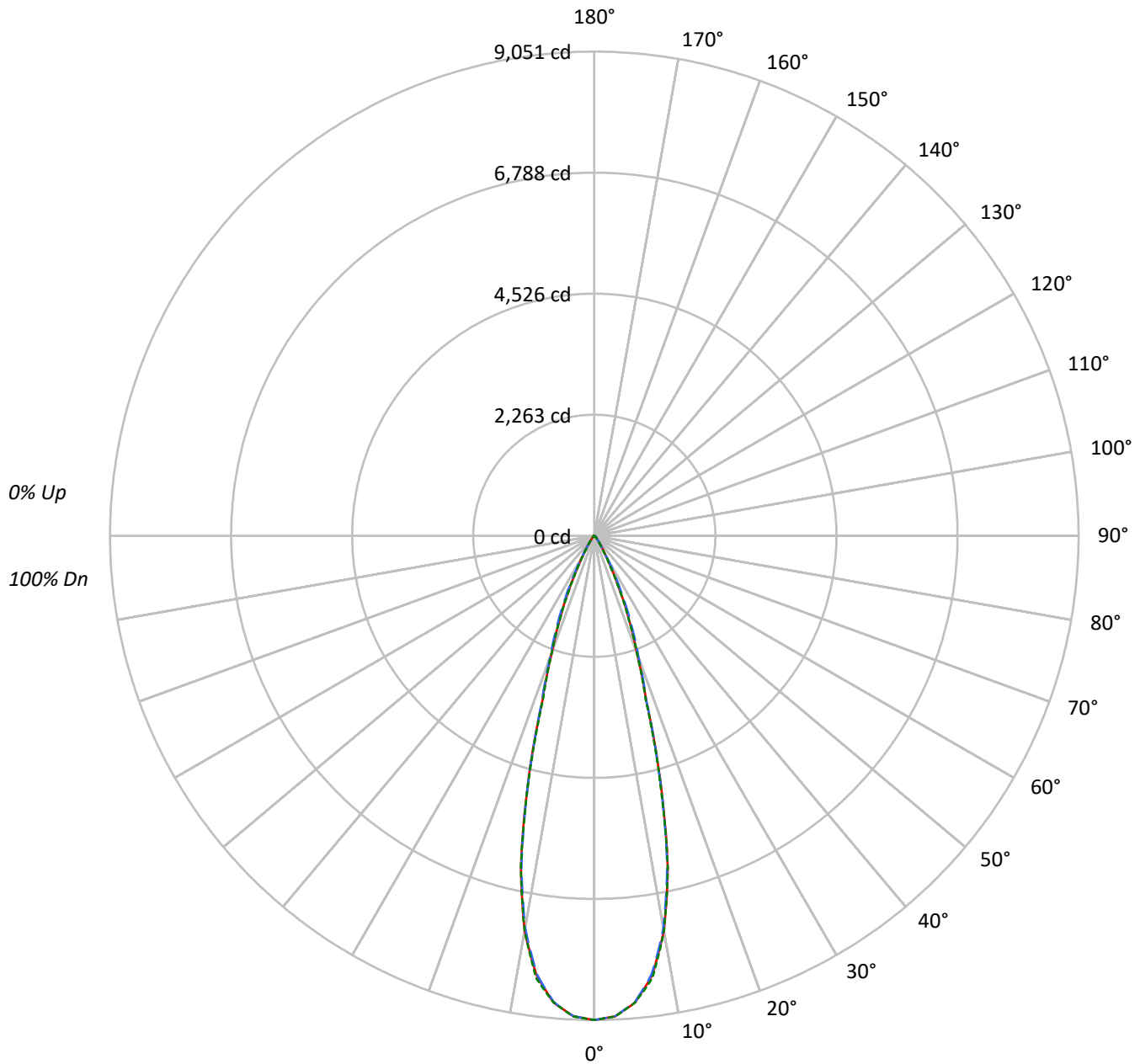


Downlight

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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	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°	692787	692787	692787
5°	672897	672113	672935
10°	582830	578719	582691
15°	380266	378229	376328
20°	189091	196186	188839
25°	95250	107412	93299
30°	38138	41550	33224
35°	17689	16941	14203
40°	7634	8483	7194
45°	5391	6690	5434
50°	1858	4870	1953
55°	1068	2015	1121
60°	750	888	750
65°	489	489	489
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: 6690 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.9	28.3
10°-20°	1281.8	45.5
20°-30°	553.9	19.7
30°-40°	126.2	4.5
40°-50°	43.4	1.5
50°-60°	10.6	0.4
60°-70°	2.8	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°	2631.6	93.5
0°-40°	2757.8	98.0
0°-60°	2811.8	99.9
0°-90°	2814.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2814.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9051	9051	9051	9051	9051	
5°	8758	8749	8747	8766	8758	797
15°	4799	4741	4773	4757	4749	1285
25°	1128	1170	1272	1141	1105	540
35°	189	193	181	180	152	128
45°	50	62	62	62	50	35
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°	9050.9	9050.9	9050.9	9050.9	9050.9
2.5°	8990.9	8984.7	8988.2	8992.7	8994.5
5°	8757.6	8749.2	8747.4	8765.6	8758.1
7.5°	8287.0	8275.0	8256.8	8298.1	8336.8
10°	7498.7	7485.4	7445.8	7465.4	7496.9
12.5°	6334.9	6291.8	6290.9	6353.1	6344.7
15°	4798.7	4741.0	4773.0	4757.4	4749.0
17.5°	3227.0	3204.8	3247.4	3234.6	3179.0
20°	2321.4	2327.2	2408.5	2367.6	2318.3
22.5°	1693.9	1714.8	1811.2	1705.9	1667.3
25°	1127.8	1170.5	1271.8	1140.7	1104.7
27.5°	693.7	713.2	815.9	684.8	665.2
30°	431.5	421.7	470.1	403.5	375.9
32.5°	283.1	270.6	286.2	256.8	234.6
35°	189.3	193.3	181.3	180.0	152.0
37.5°	118.2	136.0	120.0	128.0	97.8
40°	76.4	98.6	84.9	93.8	72.0
42.5°	62.7	76.0	69.8	74.2	64.0
45°	49.8	61.8	61.8	61.8	50.2
47.5°	27.6	41.3	52.9	42.2	29.3
50°	15.6	20.9	40.9	21.8	16.4
52.5°	10.7	12.0	28.0	12.4	11.1
55°	8.0	8.4	15.1	8.9	8.4
57.5°	6.2	6.7	8.0	6.7	6.2
60°	4.9	4.9	5.8	5.3	4.9
62.5°	3.6	3.6	4.0	3.6	3.6
65°	2.7	2.7	2.7	2.7	2.7
67.5°	1.3	1.8	1.8	1.8	1.8
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)