

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: P1178116

Luminaire Tested: LDA2B058027R2040D010 2LBD1LI

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178116
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B058027R2040D010 2LBD1LI
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

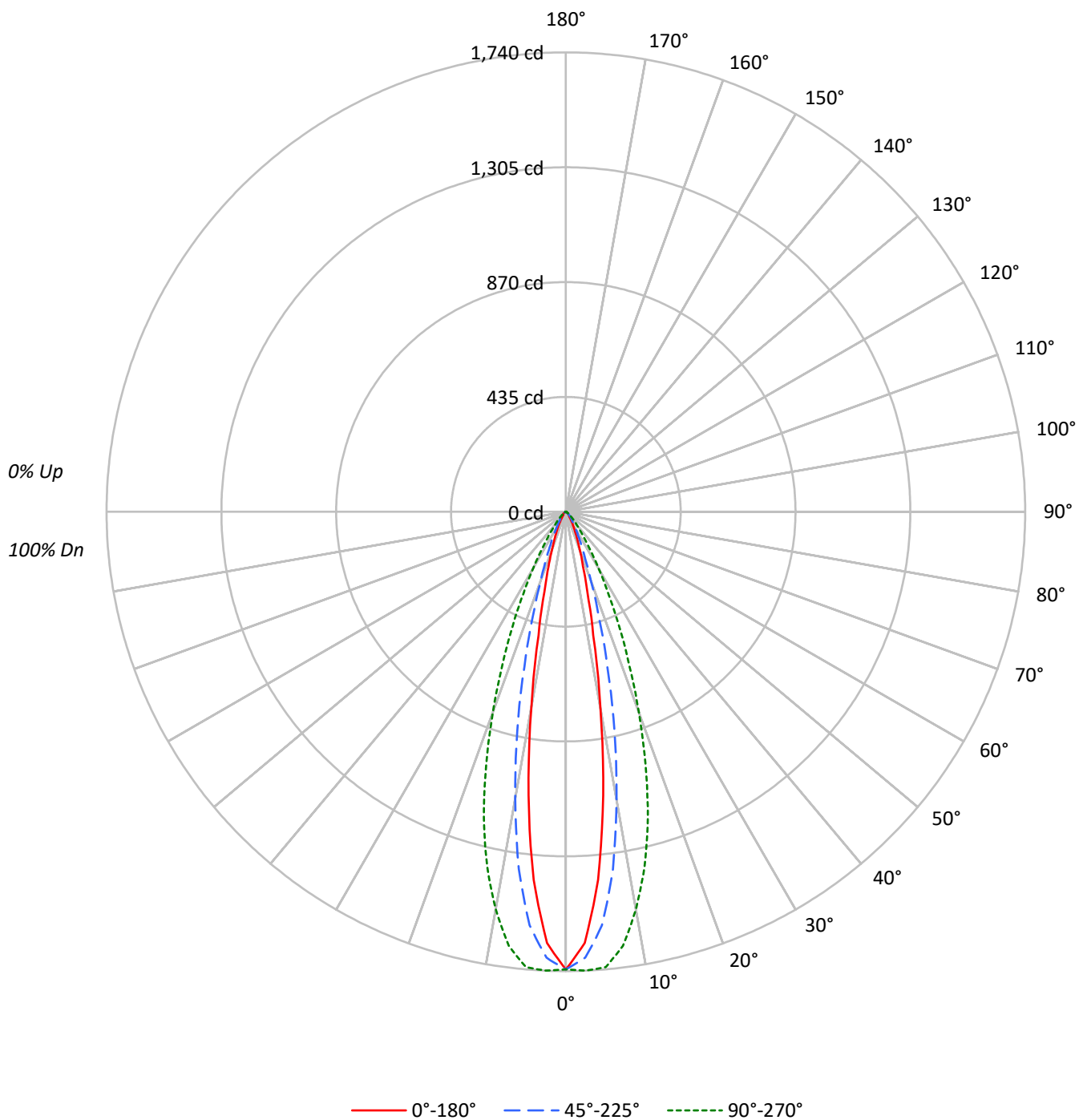
Lumens per Lamp: N/A
Luminaire Lumens: 488.7 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7
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

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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	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92
4	102	95	91	87	100	94	90	87	92	89	86		90	87	85		89
5	98	91	86	83	97	90	86	83	89	85	82		87	84	81		86
6	94	87	83	79	93	87	82	79	85	81	78		84	80	78		83
7	91	84	79	76	90	83	79	75	82	78	75		81	77	75		80
8	88	81	76	73	87	80	76	72	79	75	72		78	75	72		77
9	85	78	73	70	84	77	73	70	76	72	70		76	72	69		75
10	83	75	70	67	82	75	70	67	74	70	67		73	70	67		73

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	855391	855391	855391
5°	693345	778725	857618
10°	376982	552924	765837
15°	159461	310290	612970
20°	81379	145904	423852
25°	45073	74632	258355
30°	25237	41473	140883
35°	14635	25115	71792
40°	10884	18999	39737
45°	9559	12908	23513
50°	10131	8520	12511
55°	7225	5935	6795
60°	4638	4144	4144
65°	3736	3736	3736
70°	3029	3029	3029
75°	3050	3050	3050
80°	3125	3125	3125
85°	2830	2830	2830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 23513 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	27.6
10°-20°	191.0	39.1
20°-30°	98.4	20.1
30°-40°	36.2	7.4
40°-50°	15.9	3.3
50°-60°	7.0	1.4
60°-70°	3.0	0.6
70°-80°	1.6	0.3
80°-90°	0.4	0.1
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°	424.5	86.9
0°-40°	460.8	94.3
0°-60°	483.6	99.0
0°-90°	488.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	488.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1400	1448	1572	1684	1732	113
15°	312	363	608	1014	1200	95
25°	83	93	137	315	475	40
35°	24	28	42	73	119	16
45°	14	16	18	22	34	11
55°	8	7	7	7	8	8
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
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°	1733.8	1733.8	1733.8	1733.8	1733.8
2.5°	1634.7	1654.2	1690.5	1725.3	1739.6
5°	1400.0	1447.5	1572.4	1683.7	1731.7
7.5°	1084.1	1162.2	1364.7	1573.0	1658.4
10°	752.5	831.6	1103.7	1403.2	1528.7
12.5°	479.8	556.8	850.5	1214.9	1377.9
15°	312.2	362.8	607.5	1013.5	1200.1
17.5°	216.7	252.6	413.4	799.9	1003.5
20°	155.0	180.3	277.9	610.1	807.3
22.5°	112.3	129.7	193.0	445.6	627.5
25°	82.8	92.8	137.1	314.8	474.6
27.5°	61.2	67.5	99.1	217.3	347.0
30°	44.3	49.6	72.8	149.2	247.3
32.5°	32.2	36.9	54.3	103.4	172.4
35°	24.3	27.9	41.7	72.8	119.2
37.5°	20.0	22.1	34.3	52.7	84.4
40°	16.9	19.0	29.5	39.0	61.7
42.5°	14.8	17.4	24.3	29.0	46.4
45°	13.7	15.8	18.5	22.1	33.7
47.5°	13.7	13.2	14.2	16.9	23.7
50°	13.2	11.1	11.1	13.2	16.3
52.5°	11.1	9.0	9.0	9.5	11.1
55°	8.4	7.4	6.9	7.4	7.9
57.5°	6.3	6.3	5.8	5.3	5.8
60°	4.7	4.7	4.2	4.2	4.2
62.5°	3.7	3.7	3.7	3.2	3.7
65°	3.2	3.2	3.2	2.6	3.2
67.5°	2.6	2.6	2.1	2.6	2.6
70°	2.1	2.1	2.1	2.1	2.1
72.5°	1.6	1.6	1.6	1.6	1.6
75°	1.6	1.6	1.6	1.6	1.6
77.5°	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	1.1	1.1	1.1
82.5°	0.5	0.5	0.5	0.5	0.5
85°	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)