

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: P1178227

Luminaire Tested: LDA2B058040R2040D010 2LBD1B

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178227
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: LDA2B058040R2040D010 2LBD1B
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

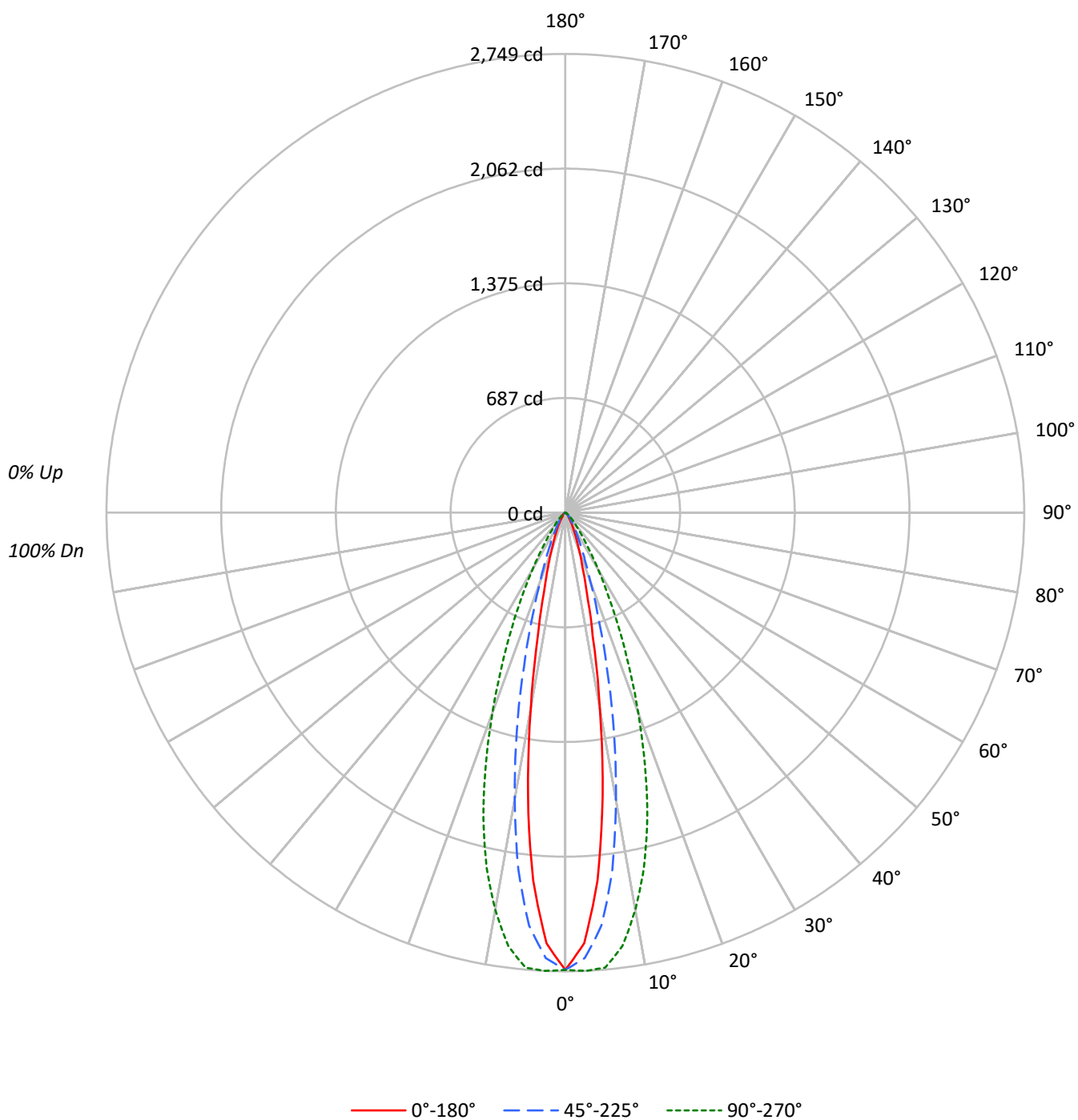
Lumens per Lamp: N/A
Luminaire Lumens: 772.2 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	97	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	92	92	91
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	88	88	87
4	102	95	91	88	100	94	90	87	92	89	86	90	87	85	89	86	84	84	84	83
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	81	81	79
6	94	87	83	79	93	87	82	79	85	81	78	84	80	78	83	80	77	77	77	76
7	91	84	79	76	90	83	79	75	82	78	75	81	77	75	80	77	74	74	74	73
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	72	72	70
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	69	69	68
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	67	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1351713	1351713	1351713
5°	1095633	1230588	1355242
10°	595707	873696	1210200
15°	251961	490284	968667
20°	128631	230538	669774
25°	71203	117964	408219
30°	39878	65514	222633
35°	23067	39630	113410
40°	17196	30077	62794
45°	15141	20373	37188
50°	15965	13432	19802
55°	11440	9290	10752
60°	7400	6611	6611
65°	5837	5837	5837
70°	4760	4760	4760
75°	4766	4766	4766
80°	4830	4830	4830
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 37188 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.5	27.6
10°-20°	301.9	39.1
20°-30°	155.5	20.1
30°-40°	57.2	7.4
40°-50°	25.1	3.3
50°-60°	11.0	1.4
60°-70°	4.8	0.6
70°-80°	2.4	0.3
80°-90°	0.7	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°	670.9	86.9
0°-40°	728.1	94.3
0°-60°	764.3	99.0
0°-90°	772.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	772.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2740	2740	2740	2740	2740	
5°	2212	2287	2485	2661	2736	178
15°	493	573	960	1602	1896	151
25°	131	147	217	498	750	63
35°	38	44	66	115	188	26
45°	22	25	29	35	53	17
55°	13	12	11	12	12	12
65°	5	5	5	4	5	5
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2739.8	2739.8	2739.8	2739.8	2739.8
2.5°	2583.1	2614.0	2671.5	2726.5	2749.0
5°	2212.3	2287.3	2484.8	2660.6	2736.5
7.5°	1713.2	1836.5	2156.5	2485.7	2620.6
10°	1189.1	1314.1	1744.0	2217.3	2415.7
12.5°	758.3	879.9	1344.1	1919.9	2177.3
15°	493.3	573.3	959.9	1601.6	1896.5
17.5°	342.5	399.1	653.3	1264.1	1585.7
20°	245.0	285.0	439.1	964.1	1275.7
22.5°	177.5	205.0	305.0	704.1	991.6
25°	130.8	146.7	216.7	497.5	749.9
27.5°	96.7	106.7	156.7	343.3	548.3
30°	70.0	78.3	115.0	235.8	390.8
32.5°	50.8	58.3	85.8	163.3	272.5
35°	38.3	44.2	65.8	115.0	188.3
37.5°	31.7	35.0	54.2	83.3	133.3
40°	26.7	30.0	46.7	61.7	97.5
42.5°	23.3	27.5	38.3	45.8	73.3
45°	21.7	25.0	29.2	35.0	53.3
47.5°	21.7	20.8	22.5	26.7	37.5
50°	20.8	17.5	17.5	20.8	25.8
52.5°	17.5	14.2	14.2	15.0	17.5
55°	13.3	11.7	10.8	11.7	12.5
57.5°	10.0	10.0	9.2	8.3	9.2
60°	7.5	7.5	6.7	6.7	6.7
62.5°	5.8	5.8	5.8	5.0	5.8
65°	5.0	5.0	5.0	4.2	5.0
67.5°	4.2	4.2	3.3	4.2	4.2
70°	3.3	3.3	3.3	3.3	3.3
72.5°	2.5	2.5	2.5	2.5	2.5
75°	2.5	2.5	2.5	2.5	2.5
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8
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)