

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: P1178240

Luminaire Tested: LDA2B058040R2050D010 2LBD1B

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B058040R2050D010 2LBD1B
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

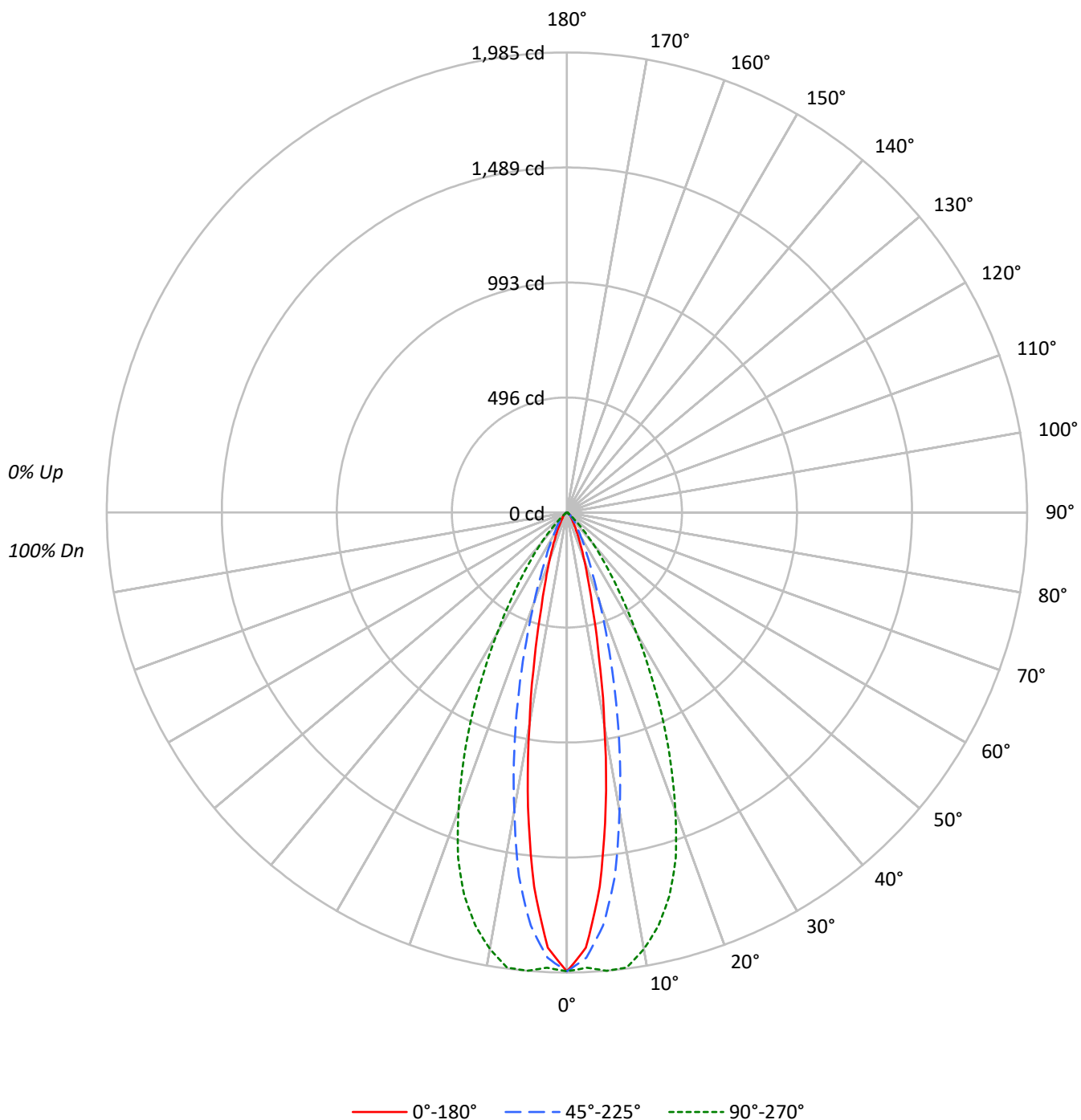
Lumens per Lamp: N/A
Luminaire Lumens: 711.7 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	96	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	91	91	90
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	86	86	85
4	100	94	89	85	99	93	88	85	91	87	84	89	85	83	87	84	82	82	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	78	78	76
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	74	74	73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	71	71	70
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	68	68	67
9	82	74	69	66	81	74	69	66	73	68	65	72	68	65	71	68	65	65	65	64
10	79	71	66	63	79	71	66	63	70	66	63	69	65	62	69	65	62	62	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	976708	976708	976708
5°	802992	885996	982915
10°	466105	654721	958311
15°	217178	407744	873307
20°	114455	214998	717814
25°	63364	116385	529394
30°	37143	68191	342381
35°	23850	45774	202849
40°	18613	30849	112707
45°	16117	18420	50096
50°	14583	12664	18344
55°	9978	9204	8515
60°	7302	6512	6512
65°	5837	4786	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: 50096 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	22.1
10°-20°	258.1	36.3
20°-30°	172.2	24.2
30°-40°	77.6	10.9
40°-50°	28.4	4.0
50°-60°	9.9	1.4
60°-70°	4.7	0.7
70°-80°	2.5	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°	587.9	82.6
0°-40°	665.5	93.5
0°-60°	703.9	98.9
0°-90°	711.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	711.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1980	1980	1980	1980	1980	
5°	1621	1672	1789	1920	1985	132
15°	425	500	798	1349	1710	127
25°	116	135	214	583	972	56
35°	40	45	76	164	337	26
45°	23	23	26	41	72	18
55°	12	11	11	9	10	11
65°	5	5	4	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°	1979.7	1979.7	1979.7	1979.7	1979.7
2.5°	1879.8	1899.7	1922.8	1946.7	1965.7
5°	1621.4	1671.8	1789.0	1919.5	1984.7
7.5°	1282.1	1356.4	1584.3	1841.9	1979.7
10°	930.4	1025.4	1306.9	1707.3	1912.9
12.5°	639.8	729.0	1048.5	1537.2	1824.5
15°	425.2	499.5	798.3	1349.0	1709.8
17.5°	299.7	350.0	580.4	1143.4	1562.0
20°	218.0	251.8	409.5	942.0	1367.2
22.5°	158.5	184.1	291.4	752.9	1169.8
25°	116.4	135.4	213.8	582.9	972.5
27.5°	86.7	101.5	160.2	442.5	775.2
30°	65.2	77.6	119.7	326.1	601.0
32.5°	50.4	58.6	91.6	232.8	454.9
35°	39.6	44.6	76.0	164.3	336.8
37.5°	33.0	36.3	62.7	114.8	246.8
40°	28.9	31.4	47.9	81.7	175.0
42.5°	25.6	27.2	34.7	58.6	113.9
45°	23.1	23.1	26.4	41.3	71.8
47.5°	21.5	19.0	20.6	28.9	42.1
50°	19.0	15.7	16.5	19.8	23.9
52.5°	14.9	13.2	13.2	13.2	14.0
55°	11.6	10.7	10.7	9.1	9.9
57.5°	9.1	9.1	8.3	7.4	8.3
60°	7.4	7.4	6.6	5.8	6.6
62.5°	5.8	5.8	5.0	5.0	5.8
65°	5.0	5.0	4.1	4.1	5.0
67.5°	4.1	4.1	4.1	3.3	4.1
70°	3.3	3.3	3.3	3.3	3.3
72.5°	2.5	2.5	3.3	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)