

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: P1178177

Luminaire Tested: LDA2B058030R2050D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178177
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: LDA2B058030R2050D010 2LBDC1MW
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

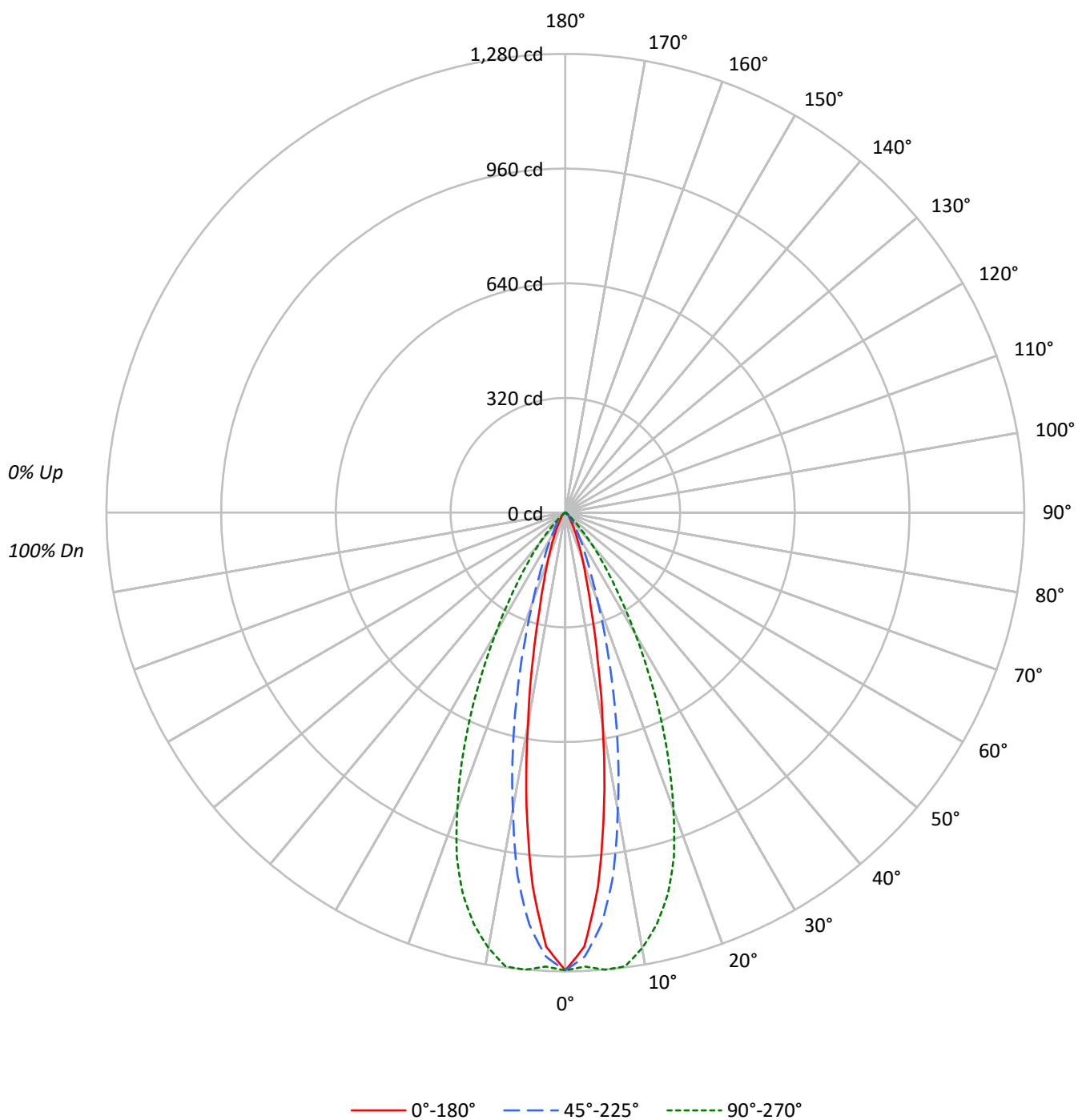
Lumens per Lamp: N/A
Luminaire Lumens: 459.0 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		90
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77
8	85	77	72	69	84	77	72	69	76	71	68		75	71	68		74
9	82	74	69	66	81	74	69	66	73	68	65		72	68	65		71
10	79	71	66	63	79	71	66	63	70	66	63		69	65	62		69

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	630023	630023	630023
5°	517929	571465	633965
10°	300634	422320	618100
15°	140052	262993	563272
20°	73818	138659	462967
25°	40882	75068	341480
30°	23984	43980	220867
35°	15418	29512	130876
40°	11979	19901	72712
45°	10396	11861	32304
50°	9364	8213	11820
55°	6451	5935	5505
60°	4736	4243	4243
65°	3736	3152	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: 32304 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	22.2
10°-20°	166.5	36.3
20°-30°	111.0	24.2
30°-40°	50.1	10.9
40°-50°	18.3	4.0
50°-60°	6.4	1.4
60°-70°	3.0	0.7
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°	379.2	82.6
0°-40°	429.3	93.5
0°-60°	454.0	98.9
0°-90°	459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	459.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1277	1277	1277	1277	1277	
5°	1046	1078	1154	1238	1280	85
15°	274	322	515	870	1103	82
25°	75	87	138	376	627	36
35°	26	29	49	106	217	17
45°	15	15	17	27	46	12
55°	8	7	7	6	6	7
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°	1277.0	1277.0	1277.0	1277.0	1277.0
2.5°	1212.5	1225.3	1240.2	1255.7	1267.9
5°	1045.8	1078.3	1153.9	1238.1	1280.1
7.5°	827.0	874.9	1021.9	1188.0	1277.0
10°	600.1	661.4	843.0	1101.2	1233.8
12.5°	412.7	470.2	676.3	991.5	1176.8
15°	274.2	322.2	514.9	870.1	1102.8
17.5°	193.3	225.8	374.4	737.5	1007.5
20°	140.6	162.4	264.1	607.6	881.8
22.5°	102.2	118.7	188.0	485.6	754.6
25°	75.1	87.3	137.9	376.0	627.3
27.5°	55.9	65.5	103.3	285.4	500.0
30°	42.1	50.1	77.2	210.3	387.7
32.5°	32.5	37.8	59.1	150.2	293.4
35°	25.6	28.8	49.0	106.0	217.3
37.5°	21.3	23.4	40.5	74.0	159.2
40°	18.6	20.2	30.9	52.7	112.9
42.5°	16.5	17.6	22.4	37.8	73.5
45°	14.9	14.9	17.0	26.6	46.3
47.5°	13.8	12.2	13.3	18.6	27.2
50°	12.2	10.1	10.7	12.8	15.4
52.5°	9.6	8.5	8.5	8.5	9.1
55°	7.5	6.9	6.9	5.9	6.4
57.5°	5.9	5.9	5.3	4.8	5.3
60°	4.8	4.8	4.3	3.7	4.3
62.5°	3.7	3.7	3.2	3.2	3.7
65°	3.2	3.2	2.7	2.7	3.2
67.5°	2.7	2.7	2.7	2.1	2.7
70°	2.1	2.1	2.1	2.1	2.1
72.5°	1.6	1.6	2.1	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)