

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: P1179296

Luminaire Tested: LDA2B158050R2050D010 2LBD1WMH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179296
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: LDA2B158050R2050D010 2LBD1WMH
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

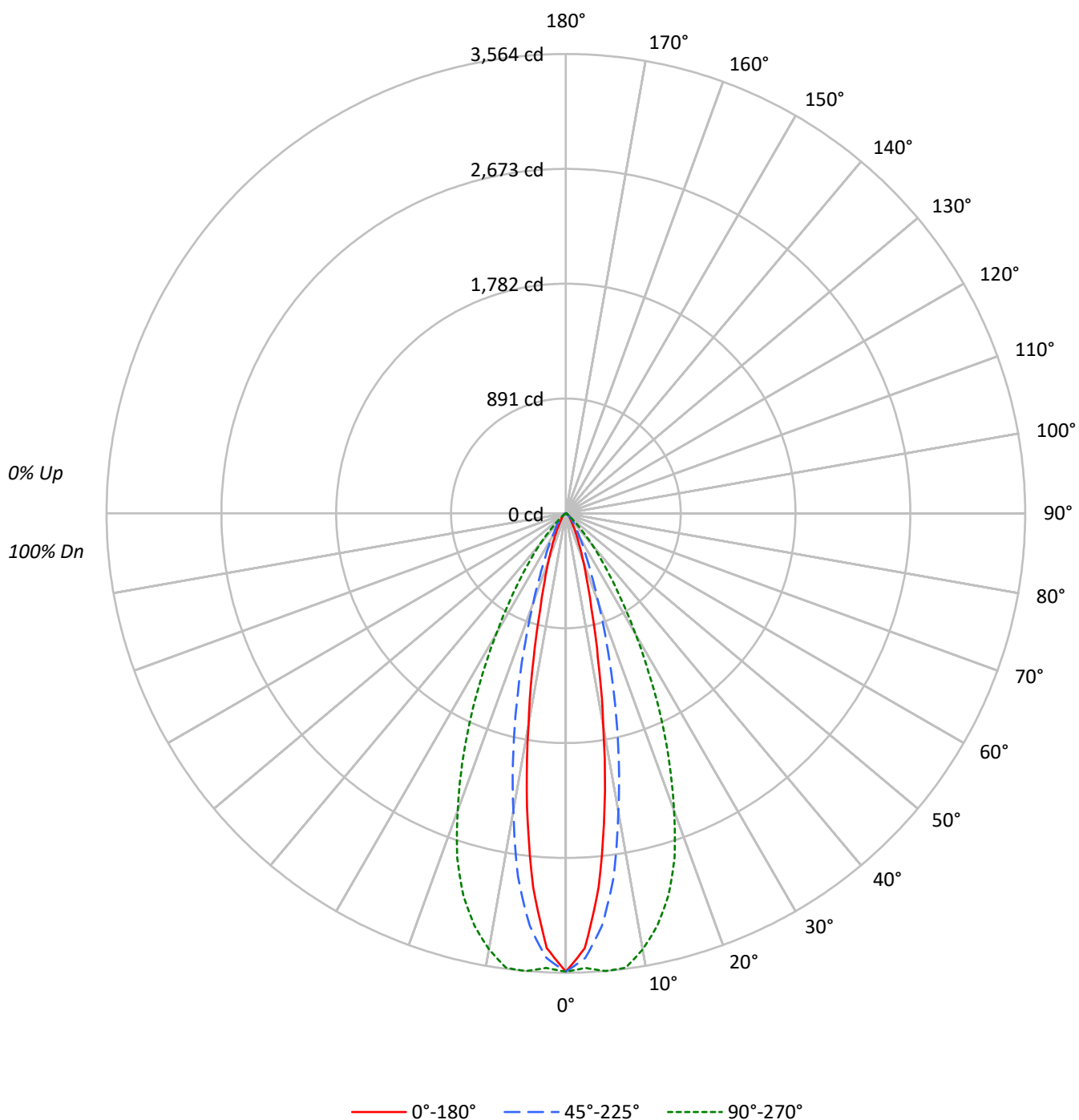
Lumens per Lamp: N/A
Luminaire Lumens: 1278.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	90
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		90	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83	80	78	76
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77	73	71	70
8	85	77	72	69	84	77	72	69	76	71	68		75	71	68		74	70	68	67
9	82	74	69	66	81	74	69	66	73	68	65		72	68	65		71	68	65	64
10	79	71	66	63	79	71	66	63	70	66	63		69	65	62		69	65	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1754099	1754099	1754099
5°	1442108	1591177	1765207
10°	837125	1175783	1720991
15°	390021	732285	1568357
20°	205495	386103	1289093
25°	113827	209036	950787
30°	66710	122482	614918
35°	42883	82151	364321
40°	33426	55387	202421
45°	28955	33072	90006
50°	26173	22796	33004
55°	17891	16601	15311
60°	13123	11742	11742
65°	10390	8639	10390
70°	8511	8511	8511
75°	8387	8387	8387
80°	8523	8523	8523
85°	8491	8491	8491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 90006 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.1	22.2
10°-20°	463.5	36.3
20°-30°	309.2	24.2
30°-40°	139.4	10.9
40°-50°	51.0	4.0
50°-60°	17.8	1.4
60°-70°	8.4	0.7
70°-80°	4.4	0.3
80°-90°	1.2	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°	1055.8	82.6
0°-40°	1195.2	93.5
0°-60°	1264.1	98.9
0°-90°	1278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3555	3555	3555	3555	3555	
5°	2912	3002	3213	3447	3564	238
15°	764	897	1434	2423	3071	229
25°	209	243	384	1047	1747	101
35°	71	80	136	295	605	47
45°	42	42	47	74	129	33
55°	21	19	19	16	18	19
65°	9	9	7	7	9	9
75°	4	4	4	4	4	4
85°	2	2	2	2	2	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3555.4	3555.4	3555.4	3555.4	3555.4
2.5°	3376.0	3411.6	3453.1	3496.1	3530.2
5°	2911.9	3002.4	3212.9	3447.2	3564.3
7.5°	2302.6	2436.0	2845.2	3307.8	3555.4
10°	1671.0	1841.5	2347.0	3066.1	3435.3
12.5°	1149.1	1309.2	1883.0	2760.7	3276.7
15°	763.6	897.0	1433.7	2422.7	3070.6
17.5°	538.2	628.6	1042.3	2053.5	2805.2
20°	391.4	452.2	735.4	1691.7	2455.3
22.5°	284.7	330.6	523.4	1352.2	2100.9
25°	209.1	243.2	384.0	1046.8	1746.6
27.5°	155.7	182.4	287.6	794.7	1392.2
30°	117.1	139.4	215.0	585.7	1079.4
32.5°	90.4	105.3	164.6	418.1	816.9
35°	71.2	80.1	136.4	295.0	604.9
37.5°	59.3	65.2	112.7	206.1	443.3
40°	51.9	56.3	86.0	146.8	314.3
42.5°	46.0	48.9	62.3	105.3	204.6
45°	41.5	41.5	47.4	74.1	129.0
47.5°	38.5	34.1	37.1	51.9	75.6
50°	34.1	28.2	29.7	35.6	43.0
52.5°	26.7	23.7	23.7	23.7	25.2
55°	20.8	19.3	19.3	16.3	17.8
57.5°	16.3	16.3	14.8	13.3	14.8
60°	13.3	13.3	11.9	10.4	11.9
62.5°	10.4	10.4	8.9	8.9	10.4
65°	8.9	8.9	7.4	7.4	8.9
67.5°	7.4	7.4	7.4	5.9	7.4
70°	5.9	5.9	5.9	5.9	5.9
72.5°	4.4	4.4	5.9	4.4	4.4
75°	4.4	4.4	4.4	4.4	4.4
77.5°	3.0	3.0	3.0	3.0	3.0
80°	3.0	3.0	3.0	3.0	3.0
82.5°	1.5	1.5	1.5	1.5	1.5
85°	1.5	1.5	1.5	1.5	1.5
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)