

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: P1179138

Luminaire Tested: LDA2B158027R2050D010 2LBD1MB

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179138
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: LDA2B158027R2050D010 2LBD1MB
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

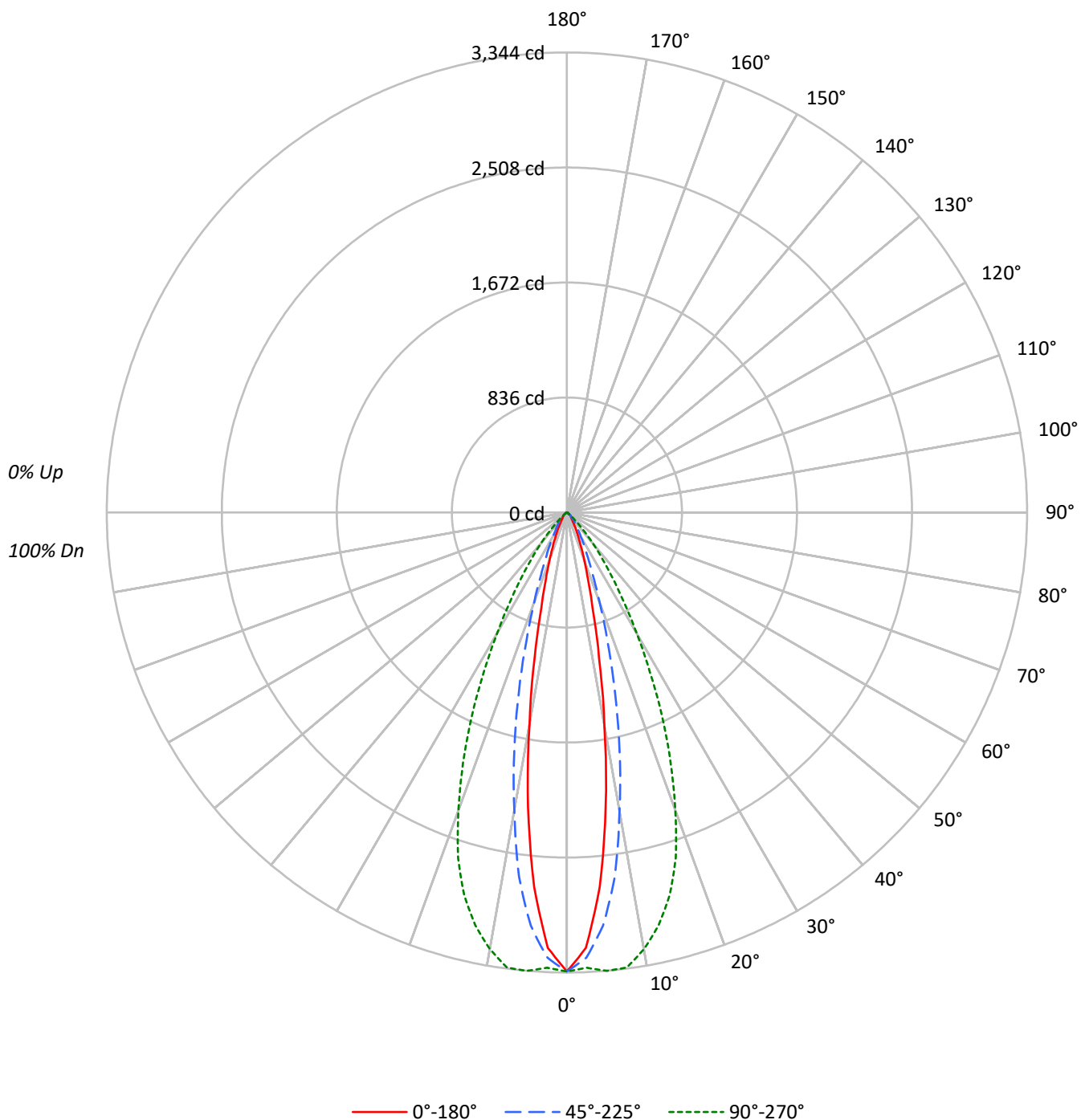
Lumens per Lamp: N/A
Luminaire Lumens: 1199.2 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	1645904	1645904	1645904
5°	1353162	1493019	1656302
10°	785475	1103292	1614835
15°	365964	687133	1471618
20°	192842	362267	1209552
25°	106804	196135	892105
30°	62608	114905	576977
35°	40233	77092	341856
40°	31365	51974	189927
45°	27211	31048	84424
50°	24561	21337	30932
55°	16773	15569	14365
60°	12334	10953	10953
65°	9689	8172	9689
70°	8078	8078	8078
75°	8006	8006	8006
80°	7955	7955	7955
85°	7925	7925	7925

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 84424 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.6	22.1
10°-20°	434.9	36.3
20°-30°	290.1	24.2
30°-40°	130.8	10.9
40°-50°	47.9	4.0
50°-60°	16.7	1.4
60°-70°	7.8	0.7
70°-80°	4.2	0.3
80°-90°	1.1	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°	990.7	82.6
0°-40°	1121.5	93.5
0°-60°	1186.1	98.9
0°-90°	1199.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1199.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3336	3336	3336	3336	3336	
5°	2732	2817	3015	3234	3344	223
15°	716	842	1345	2273	2881	215
25°	196	228	360	982	1639	95
35°	67	75	128	277	568	44
45°	39	39	44	70	121	31
55°	20	18	18	15	17	18
65°	8	8	7	7	8	8
75°	4	4	4	4	4	4
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°	3336.1	3336.1	3336.1	3336.1	3336.1
2.5°	3167.7	3201.1	3240.1	3280.4	3312.4
5°	2732.3	2817.2	3014.7	3234.5	3344.4
7.5°	2160.5	2285.7	2669.7	3103.7	3336.1
10°	1567.9	1727.9	2202.3	2877.0	3223.4
12.5°	1078.2	1228.4	1766.8	2590.4	3074.5
15°	716.5	841.7	1345.3	2273.2	2881.2
17.5°	505.0	589.9	978.0	1926.8	2632.1
20°	367.3	424.3	690.0	1587.3	2303.8
22.5°	267.1	310.2	491.1	1268.8	1971.3
25°	196.2	228.2	360.3	982.2	1638.8
27.5°	146.1	171.1	269.9	745.7	1306.3
30°	109.9	130.8	201.7	549.5	1012.8
32.5°	84.9	98.8	154.4	392.3	766.5
35°	66.8	75.1	128.0	276.8	567.6
37.5°	55.6	61.2	105.7	193.4	416.0
40°	48.7	52.9	80.7	137.7	294.9
42.5°	43.1	45.9	58.4	98.8	192.0
45°	39.0	39.0	44.5	69.6	121.0
47.5°	36.2	32.0	34.8	48.7	71.0
50°	32.0	26.4	27.8	33.4	40.3
52.5°	25.0	22.3	22.3	22.3	23.7
55°	19.5	18.1	18.1	15.3	16.7
57.5°	15.3	15.3	13.9	12.5	13.9
60°	12.5	12.5	11.1	9.7	11.1
62.5°	9.7	9.7	8.3	8.3	9.7
65°	8.3	8.3	7.0	7.0	8.3
67.5°	7.0	7.0	7.0	5.6	7.0
70°	5.6	5.6	5.6	5.6	5.6
72.5°	4.2	4.2	5.6	4.2	4.2
75°	4.2	4.2	4.2	4.2	4.2
77.5°	2.8	2.8	2.8	2.8	2.8
80°	2.8	2.8	2.8	2.8	2.8
82.5°	1.4	1.4	1.4	1.4	1.4
85°	1.4	1.4	1.4	1.4	1.4
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)