

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: P1179240

Luminaire Tested: LDA2B158040R2040D010 2LBD1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179240
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: LDA2B158040R2040D010 2LBD1MMS
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

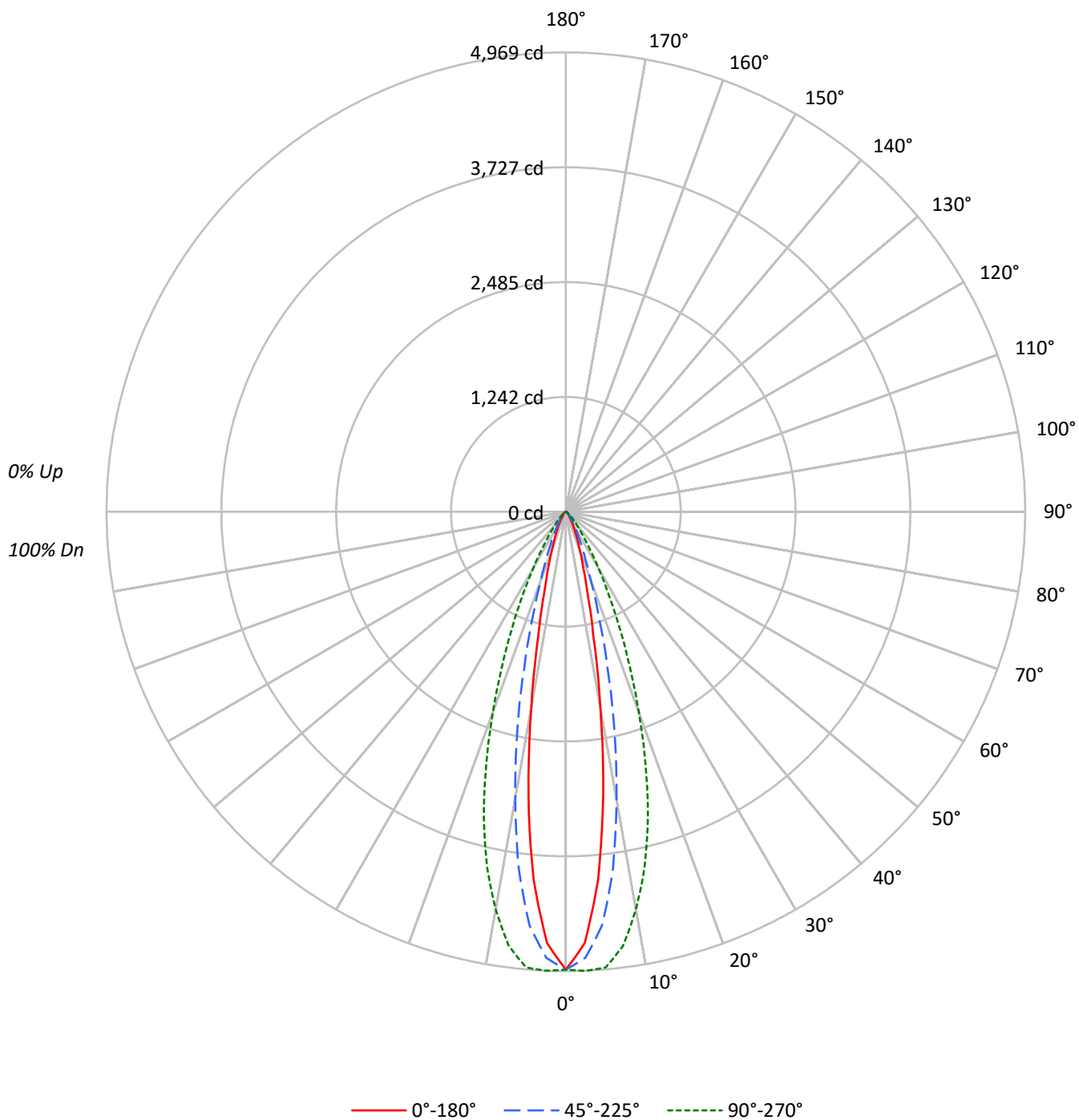
Lumens per Lamp: N/A
Luminaire Lumens: 1395.8 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92	90	88	87
4	102	95	91	88	100	94	90	87	92	89	86		90	87	85		89	86	84	83
5	98	91	86	83	97	90	86	83	89	85	82		87	84	81		86	83	81	79
6	94	87	83	79	93	87	82	79	85	81	78		84	80	78		83	80	77	76
7	91	84	79	76	90	83	79	75	82	78	75		81	77	75		80	77	74	73
8	88	81	76	73	87	80	76	72	79	75	72		78	75	72		77	74	72	70
9	85	78	73	70	84	77	73	70	76	72	70		76	72	69		75	72	69	68
10	83	75	70	67	82	75	70	67	74	70	67		73	70	67		73	69	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2443473	2443473	2443473
5°	1980589	2224548	2449835
10°	1076841	1579417	2187648
15°	455450	886332	1751058
20°	232533	416765	1210812
25°	128742	213173	737995
30°	72065	118438	402483
35°	41738	71672	205017
40°	31043	54357	113480
45°	27351	36770	67260
50°	28936	24254	35844
55°	20730	16859	19439
60°	13419	11939	11939
65°	10507	10507	10507
70°	8655	8655	8655
75°	8578	8578	8578
80°	8523	8523	8523
85°	8491	8491	8491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 67260 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.9	27.6
10°-20°	545.7	39.1
20°-30°	281.1	20.1
30°-40°	103.4	7.4
40°-50°	45.5	3.3
50°-60°	19.9	1.4
60°-70°	8.7	0.6
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°	1212.7	86.9
0°-40°	1316.2	94.3
0°-60°	1381.6	99.0
0°-90°	1395.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1395.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4953	4953	4953	4953	4953	
5°	3999	4135	4492	4810	4947	322
15°	892	1036	1735	2895	3428	273
25°	236	265	392	899	1356	113
35°	69	80	119	208	340	47
45°	39	45	53	63	96	32
55°	24	21	20	21	23	22
65°	9	9	9	8	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°	4952.7	4952.7	4952.7	4952.7	4952.7
2.5°	4669.5	4725.3	4829.2	4928.6	4969.3
5°	3999.2	4134.8	4491.8	4809.6	4946.7
7.5°	3097.0	3319.9	3898.3	4493.3	4737.3
10°	2149.5	2375.4	3152.7	4008.3	4366.8
12.5°	1370.7	1590.7	2429.7	3470.5	3936.0
15°	891.7	1036.3	1735.3	2895.1	3428.3
17.5°	619.1	721.5	1180.9	2285.1	2866.5
20°	442.9	515.2	793.8	1742.8	2306.2
22.5°	320.8	370.6	551.3	1272.8	1792.5
25°	236.5	265.1	391.6	899.3	1355.7
27.5°	174.7	192.8	283.2	620.6	991.1
30°	126.5	141.6	207.9	426.3	706.5
32.5°	91.9	105.4	155.1	295.2	492.6
35°	69.3	79.8	119.0	207.9	340.4
37.5°	57.2	63.3	97.9	150.6	241.0
40°	48.2	54.2	84.4	111.5	176.2
42.5°	42.2	49.7	69.3	82.8	132.6
45°	39.2	45.2	52.7	63.3	96.4
47.5°	39.2	37.7	40.7	48.2	67.8
50°	37.7	31.6	31.6	37.7	46.7
52.5°	31.6	25.6	25.6	27.1	31.6
55°	24.1	21.1	19.6	21.1	22.6
57.5°	18.1	18.1	16.6	15.1	16.6
60°	13.6	13.6	12.1	12.1	12.1
62.5°	10.5	10.5	10.5	9.0	10.5
65°	9.0	9.0	9.0	7.5	9.0
67.5°	7.5	7.5	6.0	7.5	7.5
70°	6.0	6.0	6.0	6.0	6.0
72.5°	4.5	4.5	4.5	4.5	4.5
75°	4.5	4.5	4.5	4.5	4.5
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)