

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: P1179481

Luminaire Tested: LDA2B159040R2040D010 2LBDC1MW

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179481
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: LDA2B159040R2040D010 2LBDC1MW
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

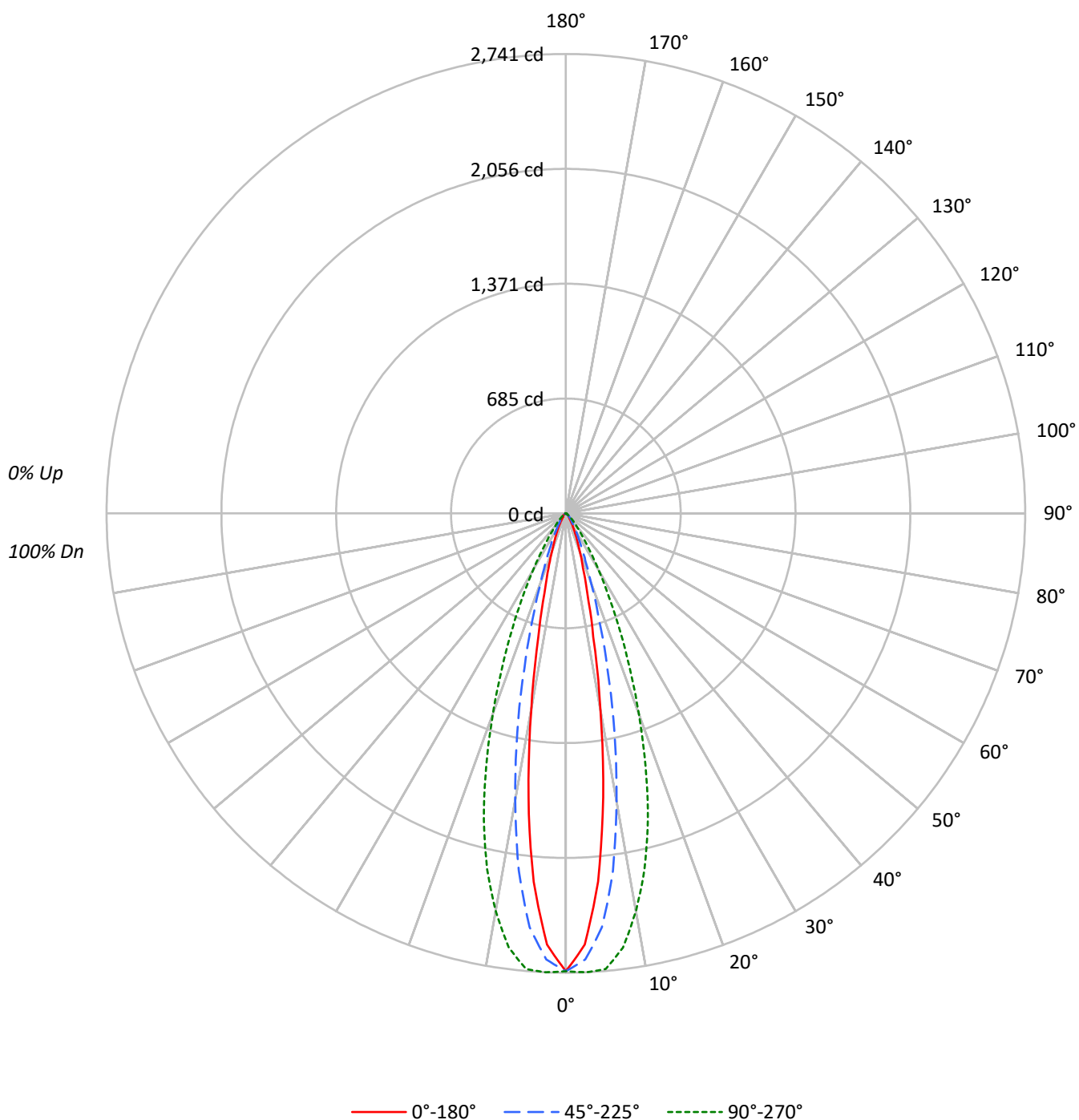
Lumens per Lamp: N/A
Luminaire Lumens: 770.0 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	1347864	1347864	1347864
5°	1092513	1227072	1351379
10°	594003	871242	1206743
15°	251246	488905	965909
20°	128264	229908	667884
25°	71040	117583	407076
30°	39764	65343	222006
35°	23007	39510	113109
40°	17131	29948	62601
45°	15071	20304	37119
50°	15965	13355	19802
55°	11440	9290	10752
60°	7400	6512	6512
65°	5837	5837	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: 37119 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	27.6
10°-20°	301.0	39.1
20°-30°	155.1	20.1
30°-40°	57.1	7.4
40°-50°	25.1	3.3
50°-60°	11.0	1.4
60°-70°	4.8	0.6
70°-80°	2.4	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°	669.0	86.9
0°-40°	726.0	94.3
0°-60°	762.1	99.0
0°-90°	770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2732	2732	2732	2732	2732	
5°	2206	2281	2478	2653	2729	177
15°	492	572	957	1597	1891	150
25°	130	146	216	496	748	63
35°	38	44	66	115	188	26
45°	22	25	29	35	53	17
55°	13	12	11	12	12	12
65°	5	5	5	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°	2732.0	2732.0	2732.0	2732.0	2732.0
2.5°	2575.8	2606.5	2663.9	2718.7	2741.1
5°	2206.0	2280.8	2477.7	2653.1	2728.7
7.5°	1708.3	1831.3	2150.4	2478.6	2613.2
10°	1185.7	1310.3	1739.1	2211.0	2408.8
12.5°	756.1	877.4	1340.2	1914.4	2171.1
15°	491.9	571.7	957.2	1597.0	1891.1
17.5°	341.5	398.0	651.4	1260.5	1581.2
20°	244.3	284.2	437.9	961.3	1272.1
22.5°	177.0	204.4	304.1	702.1	988.8
25°	130.5	146.2	216.0	496.0	747.8
27.5°	96.4	106.4	156.2	342.3	546.7
30°	69.8	78.1	114.7	235.1	389.7
32.5°	50.7	58.2	85.6	162.9	271.7
35°	38.2	44.0	65.6	114.7	187.8
37.5°	31.6	34.9	54.0	83.1	132.9
40°	26.6	29.9	46.5	61.5	97.2
42.5°	23.3	27.4	38.2	45.7	73.1
45°	21.6	24.9	29.1	34.9	53.2
47.5°	21.6	20.8	22.4	26.6	37.4
50°	20.8	17.4	17.4	20.8	25.8
52.5°	17.4	14.1	14.1	15.0	17.4
55°	13.3	11.6	10.8	11.6	12.5
57.5°	10.0	10.0	9.1	8.3	9.1
60°	7.5	7.5	6.6	6.6	6.6
62.5°	5.8	5.8	5.8	5.0	5.8
65°	5.0	5.0	5.0	4.2	5.0
67.5°	4.2	4.2	3.3	4.2	4.2
70°	3.3	3.3	3.3	3.3	3.3
72.5°	2.5	2.5	2.5	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)