

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: P1179283

Luminaire Tested: LDA2B158050R2040D010 2LBD1WMH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179283
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: LDA2B158050R2040D010 2LBD1WMH
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

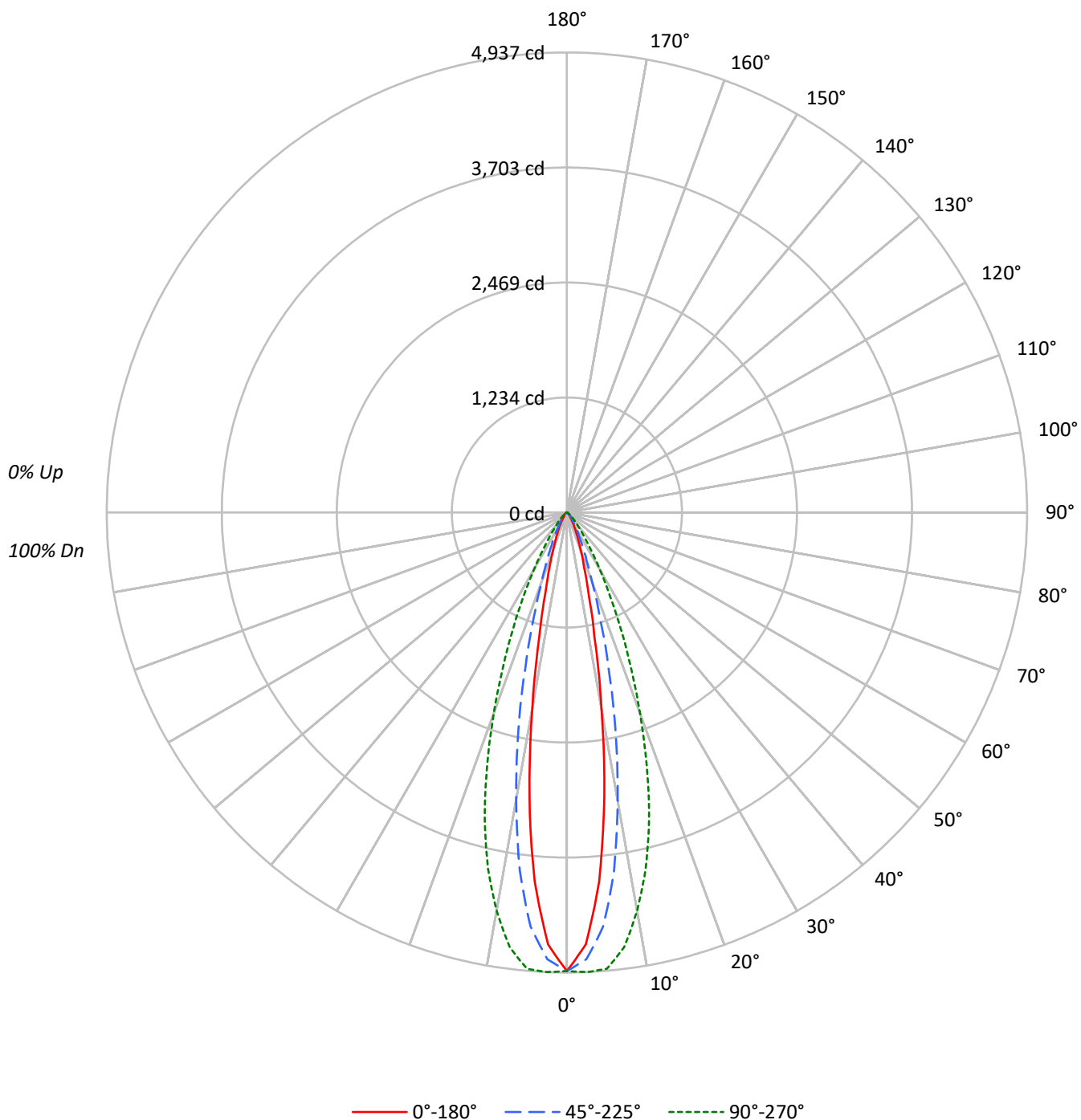
Lumens per Lamp: N/A
Luminaire Lumens: 1386.8 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	87	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°	2427537	2427537	2427537
5°	1967713	2210037	2433839
10°	1069827	1569097	2173370
15°	452487	880509	1739668
20°	231011	414034	1202884
25°	127871	211812	733150
30°	71609	117640	399862
35°	41437	71190	203692
40°	30849	53970	112771
45°	27141	36560	66841
50°	28706	24101	35614
55°	20558	16773	19267
60°	13321	11841	11841
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: 66841 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.4	27.6
10°-20°	542.1	39.1
20°-30°	279.3	20.1
30°-40°	102.8	7.4
40°-50°	45.1	3.3
50°-60°	19.8	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°	1204.8	86.9
0°-40°	1307.6	94.3
0°-60°	1372.5	99.0
0°-90°	1386.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1386.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4920	4920	4920	4920	4920	
5°	3973	4108	4462	4778	4914	320
15°	886	1030	1724	2876	3406	271
25°	235	263	389	893	1347	113
35°	69	79	118	206	338	47
45°	39	45	52	63	96	31
55°	24	21	20	21	22	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°	4920.4	4920.4	4920.4	4920.4	4920.4
2.5°	4639.1	4694.5	4797.7	4896.5	4936.9
5°	3973.2	4107.8	4462.5	4778.3	4914.4
7.5°	3076.8	3298.2	3872.9	4464.0	4706.4
10°	2135.5	2360.0	3132.1	3982.1	4338.3
12.5°	1361.8	1580.3	2413.8	3447.9	3910.3
15°	885.9	1029.6	1723.9	2876.2	3406.0
17.5°	615.1	716.8	1173.2	2270.2	2847.8
20°	440.0	511.8	788.6	1731.4	2291.1
22.5°	318.8	368.1	547.7	1264.5	1780.8
25°	234.9	263.4	389.1	893.4	1346.8
27.5°	173.6	191.5	281.3	616.6	984.7
30°	125.7	140.7	206.5	423.5	701.9
32.5°	91.3	104.8	154.1	293.3	489.3
35°	68.8	79.3	118.2	206.5	338.2
37.5°	56.9	62.9	97.3	149.6	239.4
40°	47.9	53.9	83.8	110.7	175.1
42.5°	41.9	49.4	68.8	82.3	131.7
45°	38.9	44.9	52.4	62.9	95.8
47.5°	38.9	37.4	40.4	47.9	67.3
50°	37.4	31.4	31.4	37.4	46.4
52.5°	31.4	25.4	25.4	26.9	31.4
55°	23.9	21.0	19.5	21.0	22.4
57.5°	18.0	18.0	16.5	15.0	16.5
60°	13.5	13.5	12.0	12.0	12.0
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)