

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: P1179438

Luminaire Tested: LDA2B159035R2040D010 2LBD1WHH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179438
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: LDA2B159035R2040D010 2LBD1WHH
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

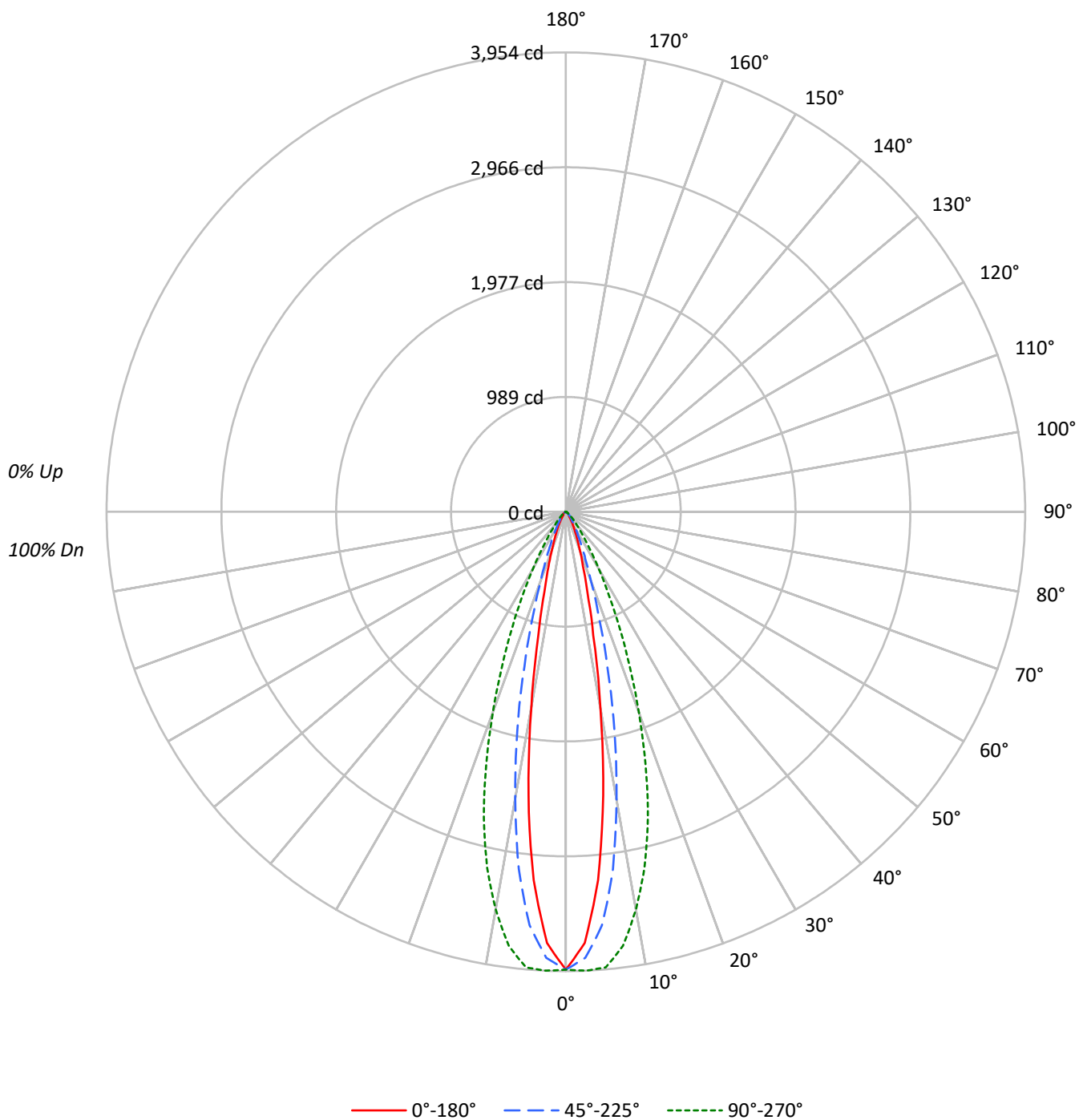
Lumens per Lamp: N/A
Luminaire Lumens: 1110.7 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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°	1944191	1944191	1944191
5°	1575874	1769961	1949240
10°	856814	1256690	1740630
15°	362388	705214	1393267
20°	185019	331606	963368
25°	102449	169624	587206
30°	57367	94226	320220
35°	33186	57036	163159
40°	24731	43215	90294
45°	21769	29234	53515
50°	23026	19342	28552
55°	16515	13418	15483
60°	10657	9473	9473
65°	8405	8405	8405
70°	6924	6924	6924
75°	6862	6862	6862
80°	6819	6819	6819
85°	6793	6793	6793

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 53515 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.1	27.6
10°-20°	434.2	39.1
20°-30°	223.7	20.1
30°-40°	82.3	7.4
40°-50°	36.2	3.3
50°-60°	15.9	1.4
60°-70°	6.9	0.6
70°-80°	3.5	0.3
80°-90°	1.0	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°	964.9	86.9
0°-40°	1047.2	94.3
0°-60°	1099.3	99.0
0°-90°	1110.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1110.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3941	3941	3941	3941	3941	
5°	3182	3290	3574	3827	3936	256
15°	710	825	1381	2304	2728	217
25°	188	211	312	716	1079	90
35°	55	64	95	165	271	37
45°	31	36	42	50	77	25
55°	19	17	16	17	18	18
65°	7	7	7	6	7	7
75°	4	4	4	4	4	3
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°	3940.7	3940.7	3940.7	3940.7	3940.7
2.5°	3715.4	3759.7	3842.4	3921.5	3953.9
5°	3182.0	3289.9	3573.9	3826.8	3935.9
7.5°	2464.1	2641.5	3101.7	3575.1	3769.3
10°	1710.3	1890.0	2508.5	3189.2	3474.5
12.5°	1090.6	1265.6	1933.2	2761.4	3131.7
15°	709.5	824.6	1380.7	2303.5	2727.8
17.5°	492.6	574.1	939.6	1818.1	2280.8
20°	352.4	409.9	631.6	1386.7	1834.9
22.5°	255.3	294.8	438.7	1012.7	1426.2
25°	188.2	210.9	311.6	715.5	1078.7
27.5°	139.0	153.4	225.3	493.8	788.6
30°	100.7	112.7	165.4	339.2	562.1
32.5°	73.1	83.9	123.4	234.9	391.9
35°	55.1	63.5	94.7	165.4	270.9
37.5°	45.5	50.3	77.9	119.9	191.8
40°	38.4	43.1	67.1	88.7	140.2
42.5°	33.6	39.6	55.1	65.9	105.5
45°	31.2	36.0	41.9	50.3	76.7
47.5°	31.2	30.0	32.4	38.4	53.9
50°	30.0	25.2	25.2	30.0	37.2
52.5°	25.2	20.4	20.4	21.6	25.2
55°	19.2	16.8	15.6	16.8	18.0
57.5°	14.4	14.4	13.2	12.0	13.2
60°	10.8	10.8	9.6	9.6	9.6
62.5°	8.4	8.4	8.4	7.2	8.4
65°	7.2	7.2	7.2	6.0	7.2
67.5°	6.0	6.0	4.8	6.0	6.0
70°	4.8	4.8	4.8	4.8	4.8
72.5°	3.6	3.6	3.6	3.6	3.6
75°	3.6	3.6	3.6	3.6	3.6
77.5°	2.4	2.4	2.4	2.4	2.4
80°	2.4	2.4	2.4	2.4	2.4
82.5°	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2
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)