Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1178138

Luminaire Tested: LDA2B058027R2050D010 2LBDC1MW

Issue Date: 1/17/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1178138
	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:	LDA2B058027R2050D010 2LBDC1MW
Description:	500 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:	450.3 lumens
Efficiency:	N/A
Efficacy:	64.3 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):	7
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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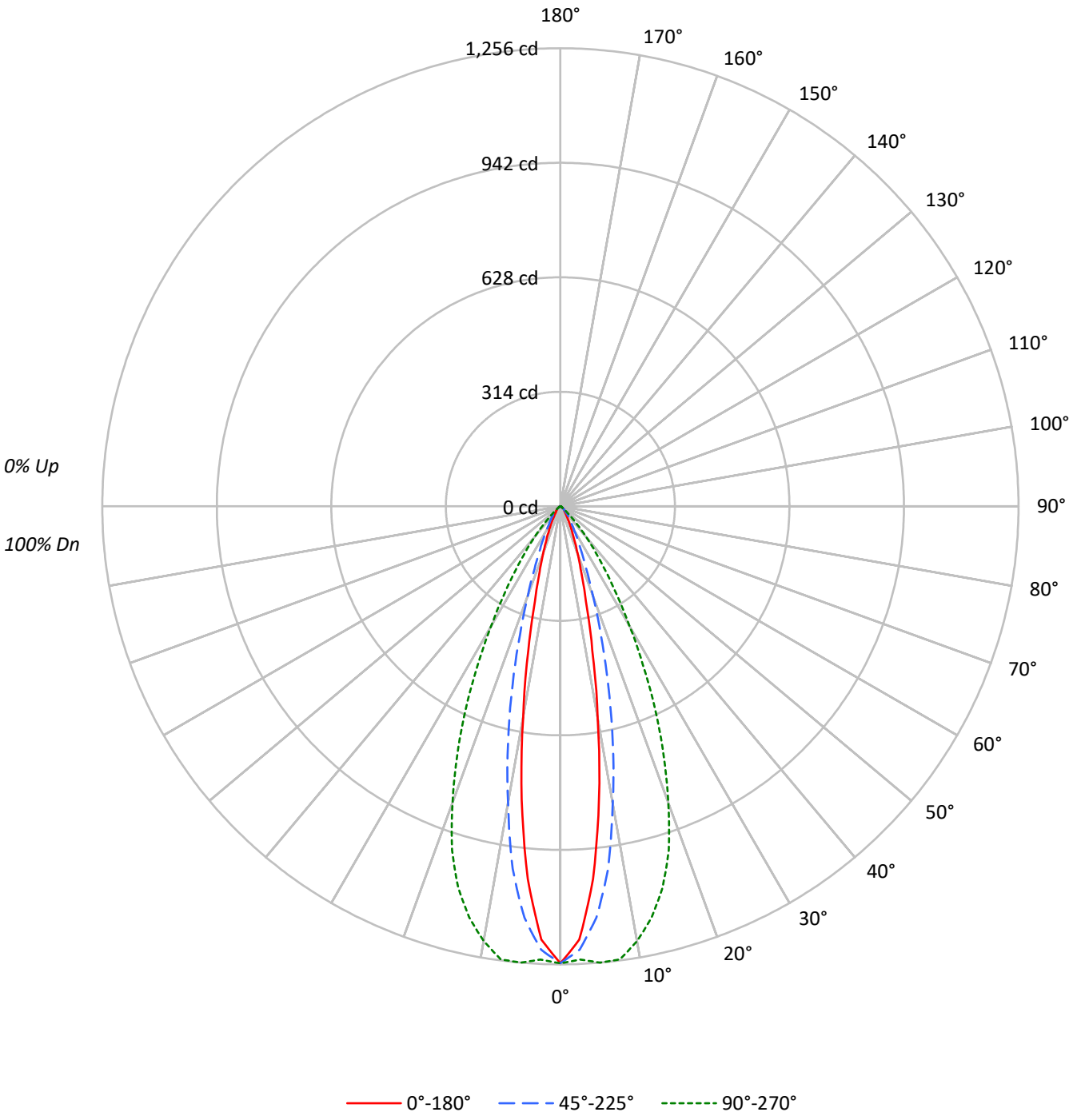
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	618084	618084	618084
5°	508172	560668	621980
10°	294973	414304	606427
15°	137447	258039	552648
20°	72401	136034	454251
25°	40120	73653	335002
30°	23528	43182	216651
35°	15117	28970	128407
40°	11786	19514	71359
45°	10187	11652	31746
50°	9210	7982	11667
55°	6279	5849	5419
60°	4638	4144	4144
65°	3619	3035	3619
70°	3029	3029	3029
75°	3050	3050	3050
80°	2841	2841	2841
85°	2830	2830	2830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 31746 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	22.2
10°-20°	163.3	36.3
20°-30°	109.0	24.2
30°-40°	49.1	10.9
40°-50°	18.0	4.0
50°-60°	6.3	1.4
60°-70°	2.9	0.7
70°-80°	1.5	0.3
80°-90°	0.4	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°	372.0	82.6
0°-40°	421.2	93.5
0°-60°	445.4	98.9
0°-90°	450.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	450.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1253	1253	1253	1253	1253	
5°	1026	1058	1132	1215	1256	84
15°	269	316	505	854	1082	81
25°	74	86	135	369	615	36
35°	25	28	48	104	213	17
45°	15	15	17	26	46	11
55°	7	7	7	6	6	7
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1252.8	1252.8	1252.8	1252.8	*1252.8*
2.5°	1189.6	1202.1	1216.8	1231.9	*1243.9*
5°	*1026.1*	*1057.9*	*1132.1*	*1214.7*	*1255.9*
7.5°	811.3	858.4	1002.6	1165.6	*1252.8*
10°	588.8	648.9	827.0	1080.4	*1210.5*
12.5°	404.9	461.3	663.5	972.8	*1154.6*
15°	269.1	316.1	505.2	853.7	*1082.0*
17.5°	189.6	221.5	367.3	723.6	*988.4*
20°	137.9	159.3	259.1	596.1	*865.2*
22.5°	100.3	116.5	184.4	476.5	*740.3*
25°	73.7	85.7	135.3	368.8	*615.4*
27.5°	54.9	64.3	101.4	280.0	*490.6*
30°	41.3	49.1	75.8	206.4	*380.3*
32.5°	31.9	37.1	58.0	147.3	*287.9*
35°	25.1	28.2	48.1	104.0	*213.2*
37.5°	20.9	23.0	39.7	72.6	*156.2*
40°	18.3	19.9	30.3	51.7	*110.8*
42.5°	16.2	17.2	21.9	37.1	*72.1*
45°	14.6	14.6	16.7	26.1	*45.5*
47.5°	13.6	12.0	13.1	18.3	*26.6*
50°	12.0	9.9	10.4	12.5	*15.2*
52.5°	9.4	8.4	8.4	8.4	*8.9*
55°	7.3	6.8	6.8	5.7	*6.3*
57.5°	5.7	5.7	5.2	4.7	*5.2*
60°	4.7	4.7	4.2	3.7	*4.2*
62.5°	3.7	3.7	3.1	3.1	*3.7*
65°	3.1	3.1	2.6	2.6	*3.1*
67.5°	2.6	2.6	2.6	2.1	*2.6*
70°	2.1	2.1	2.1	2.1	*2.1*
72.5°	1.6	1.6	2.1	1.6	*1.6*
75°	1.6	1.6	1.6	1.6	*1.6*
77.5°	1.0	1.0	1.0	1.0	*1.0*
80°	1.0	1.0	1.0	1.0	*1.0*
82.5°	0.5	0.5	0.5	0.5	*0.5*
85°	0.5	0.5	0.5	0.5	*0.5*
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)