

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: P1178163

Luminaire Tested: LDA2B058030R2040D010 2LBDC1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178163
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: LDA2B058030R2040D010 2LBDC1MMS
Description: 500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

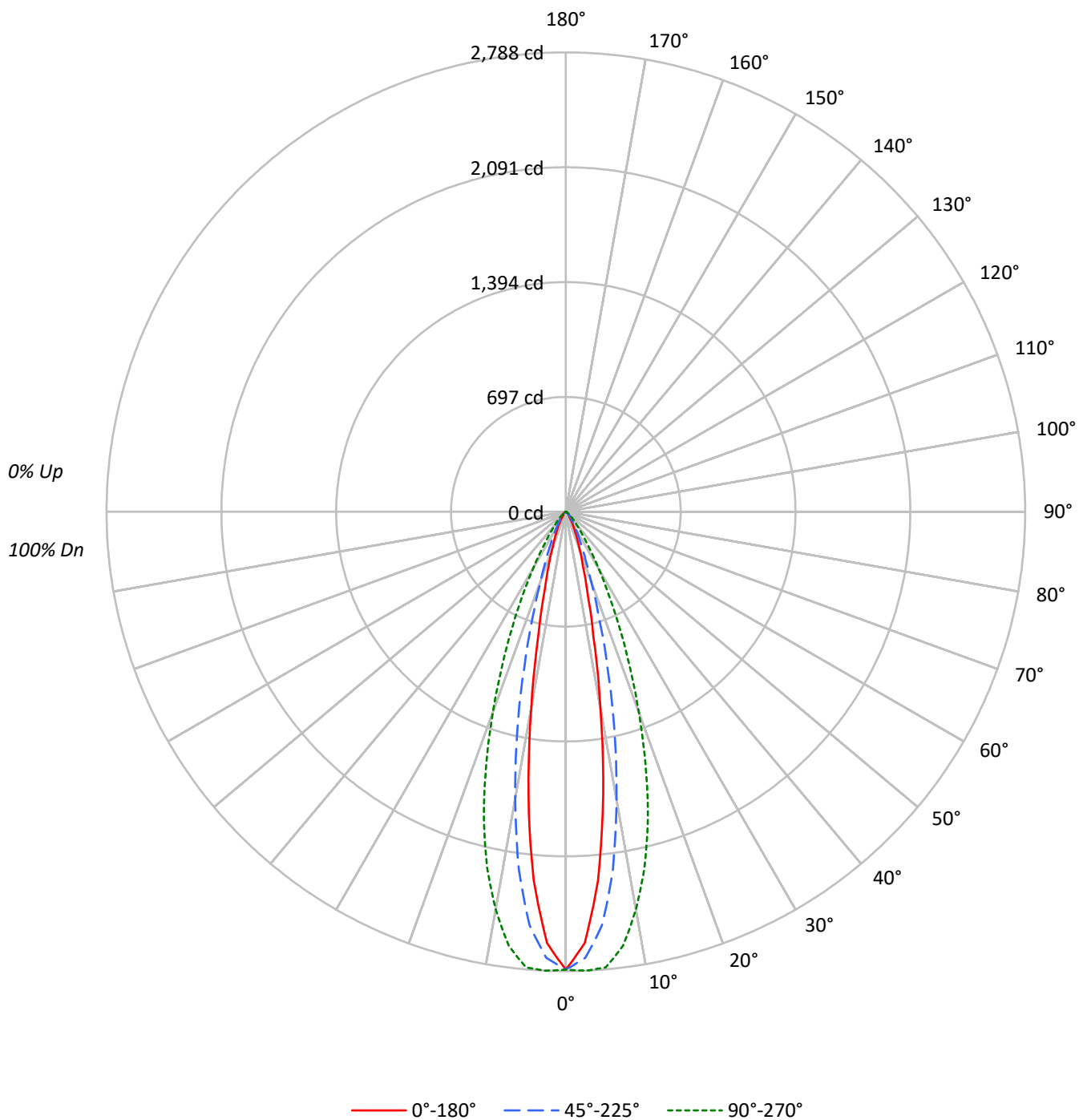
Lumens per Lamp: N/A
Luminaire Lumens: 783.1 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99
2	110	106	102	99	108	104	101	98	101	98	96		98	96	94		95
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92
4	102	96	91	88	100	94	90	87	92	89	86		90	87	85		89
5	98	91	86	83	97	90	86	83	89	85	82		87	84	81		86
6	95	87	83	79	93	87	82	79	85	81	78		84	80	78		83
7	91	84	79	76	90	83	79	75	82	78	75		81	77	75		80
8	88	81	76	73	87	80	76	72	79	75	72		78	75	72		77
9	85	78	73	70	84	77	73	70	76	72	70		76	72	69		75
10	83	75	70	67	82	75	70	67	74	70	67		73	70	67		73

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1370904	1370904	1370904
5°	1111184	1248070	1374457
10°	604123	886120	1227333
15°	255536	497230	982407
20°	130469	233846	679277
25°	72237	119597	414044
30°	40448	66425	225766
35°	23429	40233	115036
40°	17389	30463	63695
45°	15350	20652	37747
50°	16195	13585	20109
55°	11612	9462	10924
60°	7499	6710	6710
65°	5954	5954	5954
70°	4904	4904	4904
75°	4766	4766	4766
80°	4830	4830	4830
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 37747 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.5	27.6
10°-20°	306.2	39.1
20°-30°	157.7	20.1
30°-40°	58.0	7.4
40°-50°	25.5	3.3
50°-60°	11.2	1.4
60°-70°	4.9	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°	680.4	86.9
0°-40°	738.4	94.3
0°-60°	775.1	99.0
0°-90°	783.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	783.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2779	2779	2779	2779	2779	
5°	2244	2320	2520	2698	2775	181
15°	500	581	974	1624	1923	153
25°	133	149	220	504	761	64
35°	39	45	67	117	191	26
45°	22	25	30	36	54	18
55°	14	12	11	12	13	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°	2778.7	2778.7	2778.7	2778.7	2778.7
2.5°	2619.8	2651.1	2709.4	2765.1	2788.0
5°	2243.7	2319.8	2520.1	2698.4	2775.3
7.5°	1737.5	1862.6	2187.1	2520.9	2657.8
10°	1205.9	1332.7	1768.8	2248.8	2449.9
12.5°	769.0	892.4	1363.1	1947.1	2208.2
15°	500.3	581.4	973.5	1624.3	1923.4
17.5°	347.3	404.8	662.6	1282.0	1608.2
20°	248.5	289.0	445.4	977.8	1293.8
22.5°	180.0	207.9	309.3	714.1	1005.7
25°	132.7	148.7	219.7	504.5	760.6
27.5°	98.0	108.2	158.9	348.2	556.1
30°	71.0	79.4	116.6	239.2	396.3
32.5°	51.6	59.2	87.0	165.6	276.3
35°	38.9	44.8	66.8	116.6	191.0
37.5°	32.1	35.5	54.9	84.5	135.2
40°	27.0	30.4	47.3	62.5	98.9
42.5°	23.7	27.9	38.9	46.5	74.4
45°	22.0	25.4	29.6	35.5	54.1
47.5°	22.0	21.1	22.8	27.0	38.0
50°	21.1	17.7	17.7	21.1	26.2
52.5°	17.7	14.4	14.4	15.2	17.7
55°	13.5	11.8	11.0	11.8	12.7
57.5°	10.1	10.1	9.3	8.5	9.3
60°	7.6	7.6	6.8	6.8	6.8
62.5°	5.9	5.9	5.9	5.1	5.9
65°	5.1	5.1	5.1	4.2	5.1
67.5°	4.2	4.2	3.4	4.2	4.2
70°	3.4	3.4	3.4	3.4	3.4
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)