

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: P1310850

Luminaire Tested: LDSQA3D24R459035D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D24R459035D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

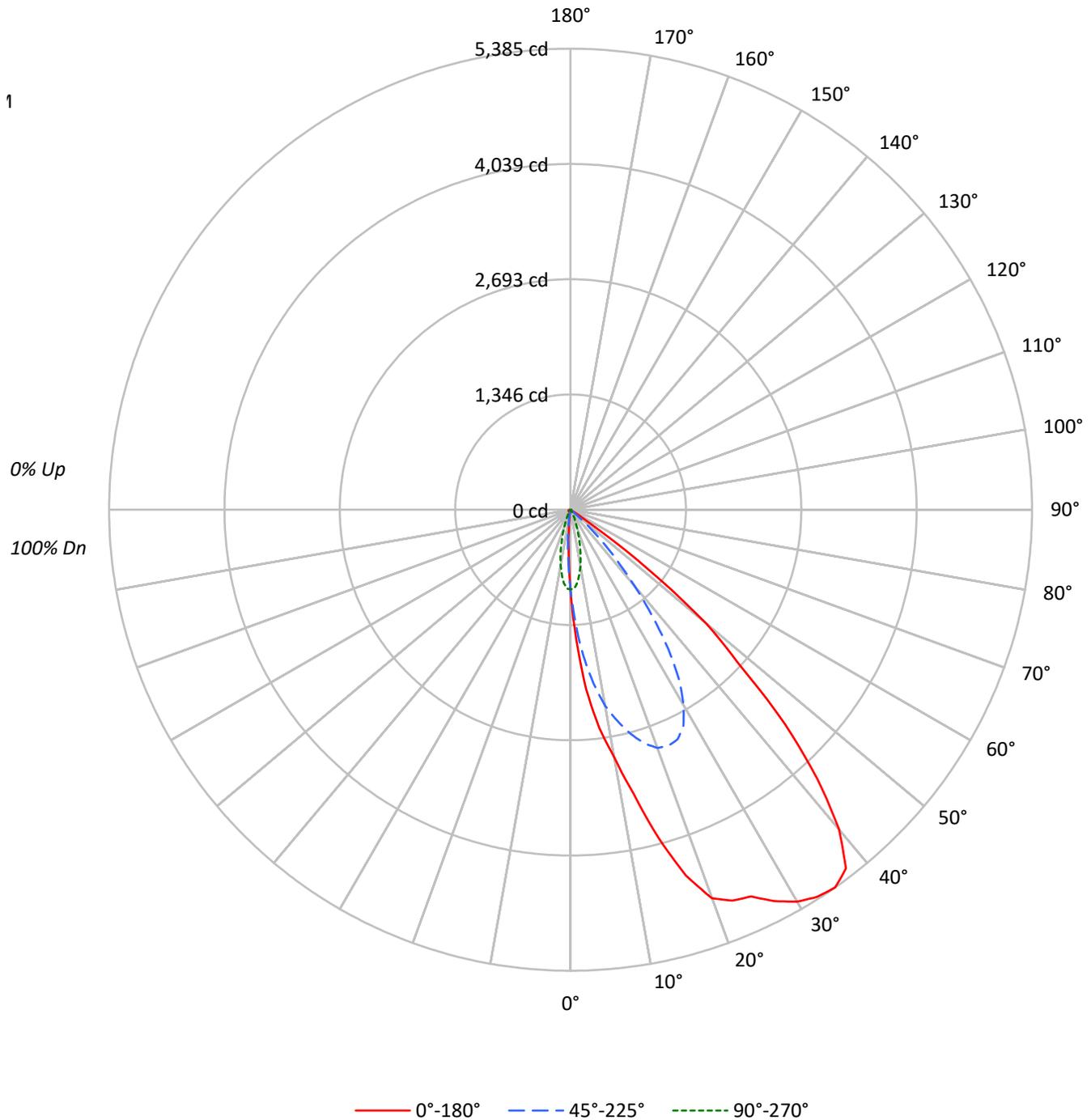
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2440.0 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	159909	159909	159909	159909	159909
5°	364415	295626	149576	59972	40921
10°	513516	406105	115630	13203	6068
15°	707647	483170	73851	4368	3637
20°	884854	542660	38525	2987	2987
25°	946922	561871	17844	2318	2717
30°	1051024	524707	8114	2426	2844
35°	1132190	418303	2565	2565	3427
40°	1095529	259196	1371	3215	4137
45°	860326	122267	1486	3970	4969
50°	552741	14227	2197	4930	6564
55°	83953	1231	2462	6125	7957
60°	1412	1412	2824	7027	8439
65°	1671	1671	3342	7498	9984
70°	2065	2065	4129	8208	11279
75°	1331	2728	5456	9515	12244
80°	1984	4066	6050	10116	14183
85°	0	3952	8102	12054	12054

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 860326 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	4.2
10°-20°	367.4	15.1
20°-30°	645.4	26.5
30°-40°	732.9	30.0
40°-50°	474.6	19.4
50°-60°	93.2	3.8
60°-70°	11.3	0.5
70°-80°	9.4	0.4
80°-90°	4.3	0.2
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°	1114.4	45.7
0°-40°	1847.3	75.7
0°-60°	2415.0	99.0
0°-90°	2440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2440.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	928	928	928	928	928	
5°	2108	1710	865	347	237	224
15°	3969	2710	414	24	20	1143
25°	4983	2957	94	12	14	2336
35°	5385	1990	12	12	16	3311
45°	3532	502	6	16	20	2662
55°	280	4	8	20	26	534
65°	4	4	8	18	24	4
75°	2	4	8	14	18	2
85°	0	2	4	6	6	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5
2.5°	1508.0	1503.9	1510.0	1469.2	1467.2	1436.6	1428.4	1393.7	1346.8	1324.3	1271.3
5°	2107.9	2087.5	2087.5	2038.6	2022.2	1987.5	1928.4	1854.9	1793.7	1710.0	1620.2
7.5°	2571.1	2567.1	2567.1	2524.2	2483.4	2434.4	2354.8	2271.2	2173.2	2044.7	1914.1
10°	2936.4	2942.5	2924.2	2885.4	2826.2	2773.2	2679.3	2577.3	2456.9	2322.2	2148.7
12.5°	3397.6	3352.7	3338.4	3250.7	3175.2	3073.1	2960.9	2844.6	2695.6	2526.3	2330.4
15°	3968.9	3911.8	3854.7	3738.4	3611.8	3454.7	3279.2	3107.8	2916.0	2709.9	2465.0
17.5°	4479.1	4479.1	4403.6	4219.9	4056.7	3824.1	3587.4	3358.8	3132.3	2860.9	2554.8
20°	4828.0	4809.7	4752.5	4617.9	4432.2	4168.9	3860.8	3540.4	3267.0	2960.9	2605.8
22.5°	4942.3	4938.2	4940.3	4860.7	4711.7	4438.3	4060.8	3683.3	3340.4	2985.4	2581.3
25°	4983.1	4991.3	5011.7	4981.1	4868.8	4595.4	4183.2	3750.6	3362.9	2956.8	2487.5
27.5°	5152.5	5136.2	5158.6	5138.2	5011.7	4685.2	4207.7	3734.3	3313.9	2852.7	2320.2
30°	5285.1	5281.0	5319.8	5301.5	5136.2	4742.3	4185.3	3673.1	3193.5	2638.5	2056.9
32.5°	5360.6	5362.7	5372.9	5297.4	5052.5	4617.9	4075.1	3548.6	2967.0	2358.9	1714.1
35°	5385.1	5372.9	5315.7	5130.0	4795.4	4330.1	3803.7	3252.7	2658.9	1989.6	1355.0
37.5°	5279.0	5215.8	5068.8	4791.3	4403.6	3968.9	3456.8	2879.3	2236.5	1571.3	1010.1
40°	4872.9	4789.3	4603.6	4319.9	3958.7	3538.4	3014.0	2409.9	1734.5	1152.9	710.1
42.5°	4264.8	4222.0	4028.1	3781.2	3475.1	3050.7	2509.9	1897.7	1283.5	795.8	453.0
45°	3532.3	3477.2	3354.7	3136.4	2895.6	2450.7	1946.7	1359.0	875.4	502.0	224.5
47.5°	2648.7	2652.8	2569.1	2403.8	2167.1	1795.7	1332.5	912.1	548.9	259.2	51.0
50°	2063.0	2034.5	1916.1	1746.7	1471.3	1195.8	861.1	575.4	289.8	53.1	4.1
52.5°	1142.7	1161.1	1097.8	1042.7	899.9	714.2	508.1	291.8	61.2	6.1	4.1
55°	279.6	295.9	283.6	289.8	300.0	267.3	206.1	57.1	6.1	4.1	4.1
57.5°	6.1	6.1	6.1	6.1	10.2	14.3	14.3	4.1	4.1	4.1	4.1
60°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
62.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
65°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
67.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
70°	4.1	4.1	4.1	2.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1	4.1
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1	4.1
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1
82.5°	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5
2.5°	1244.8	1206.0	1134.6	922.3	740.7	597.9	512.2	504.0
5°	1540.6	1436.6	1285.6	865.2	546.9	346.9	251.0	236.7
7.5°	1775.3	1628.4	1395.8	771.3	373.4	177.5	97.9	81.6
10°	1969.2	1761.0	1452.9	661.2	234.7	75.5	40.8	34.7
12.5°	2101.8	1850.8	1463.1	538.7	134.7	36.7	26.5	24.5
15°	2187.5	1879.4	1414.1	414.2	75.5	24.5	22.4	20.4
17.5°	2222.2	1854.9	1320.3	300.0	40.8	18.4	18.4	18.4
20°	2205.9	1775.3	1181.5	210.2	26.5	16.3	16.3	16.3
22.5°	2128.3	1638.6	1008.1	140.8	18.4	14.3	14.3	14.3
25°	1975.3	1452.9	824.4	93.9	12.2	12.2	14.3	14.3
27.5°	1746.7	1224.4	630.5	63.3	10.2	12.2	14.3	14.3
30°	1459.0	969.3	453.0	40.8	10.2	12.2	12.2	14.3
32.5°	1159.1	706.0	297.9	24.5	8.2	12.2	14.3	16.3
35°	840.7	481.6	189.8	12.2	10.2	12.2	14.3	16.3
37.5°	589.7	314.3	110.2	8.2	10.2	12.2	16.3	16.3
40°	383.6	175.5	40.8	6.1	10.2	14.3	16.3	18.4
42.5°	200.0	61.2	8.2	6.1	10.2	14.3	18.4	20.4
45°	51.0	8.2	2.0	6.1	12.2	16.3	20.4	20.4
47.5°	6.1	2.0	2.0	8.2	12.2	18.4	20.4	22.4
50°	2.0	4.1	4.1	8.2	12.2	18.4	22.4	24.5
52.5°	4.1	4.1	4.1	8.2	14.3	18.4	24.5	26.5
55°	4.1	4.1	4.1	8.2	14.3	20.4	24.5	26.5
57.5°	4.1	4.1	4.1	8.2	14.3	20.4	24.5	24.5
60°	4.1	4.1	4.1	8.2	14.3	20.4	24.5	24.5
62.5°	4.1	4.1	6.1	8.2	14.3	18.4	24.5	24.5
65°	4.1	6.1	6.1	8.2	14.3	18.4	22.4	24.5
67.5°	4.1	4.1	6.1	8.2	14.3	18.4	22.4	24.5
70°	4.1	4.1	6.1	8.2	12.2	16.3	20.4	22.4
72.5°	4.1	4.1	6.1	8.2	12.2	16.3	18.4	20.4
75°	4.1	4.1	6.1	8.2	10.2	14.3	18.4	18.4
77.5°	4.1	4.1	6.1	6.1	10.2	12.2	16.3	16.3
80°	4.1	4.1	6.1	6.1	8.2	10.2	12.2	14.3
82.5°	4.1	4.1	4.1	6.1	6.1	8.2	10.2	10.2
85°	4.1	4.1	4.1	4.1	4.1	6.1	6.1	6.1
87.5°	2.0	4.1	4.1	4.1	4.1	4.1	4.1	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)