

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: P1318537

Luminaire Tested: LDSQA3D17R459830DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R459830DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

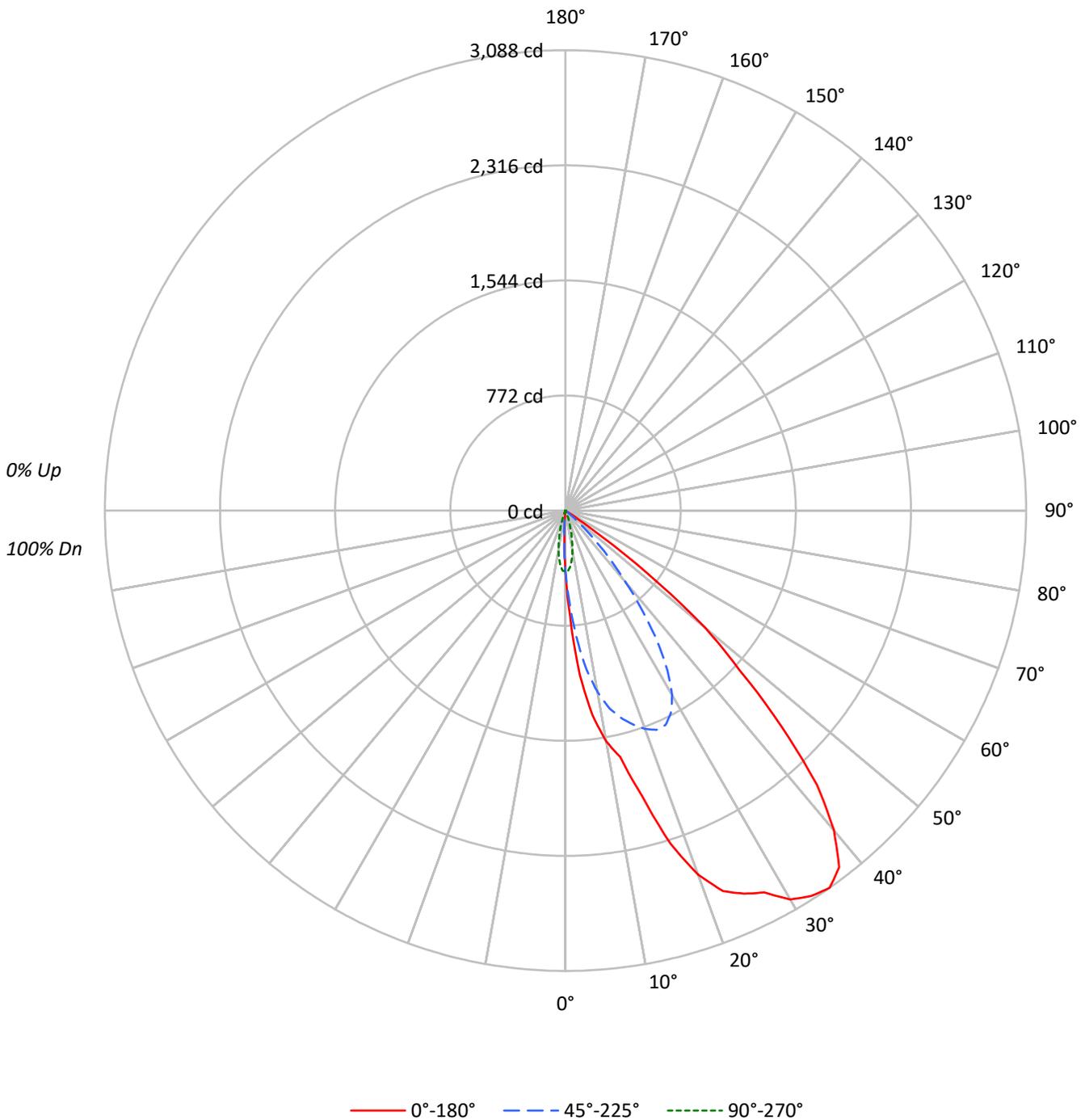
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1309.0 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P1318537
CATALOG NUMBER: LDSQA3D17R459830DE010 3LSQCA30R 1MB

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	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	98	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	82
3	99	91	85	80	97	90	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	63	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	70009	70009	70009	70009	70009
5°	191137	147069	64796	13001	4875
10°	274526	215749	46850	1224	1032
15°	353422	256624	24926	410	0
20°	476333	285543	9475	0	0
25°	538764	301648	2451	0	0
30°	598884	284358	239	0	0
35°	649195	226770	0	0	0
40°	629228	142379	0	0	0
45°	498810	67831	0	0	0
50°	326447	8493	0	0	0
55°	56089	0	0	0	0
60°	0	0	413	0	0
65°	0	489	489	0	0
70°	0	604	1158	0	0
75°	0	799	1530	0	0
80°	0	1190	2281	1190	0
85°	0	2371	4545	2371	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 498810 cd/sqm



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CATALOG NUMBER: LDSQA3D17R459830DE010 3LSQCA30R 1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	3.7
10°-20°	186.5	14.2
20°-30°	349.1	26.7
30°-40°	407.5	31.1
40°-50°	265.7	20.3
50°-60°	49.3	3.8
60°-70°	0.5	0.0
70°-80°	1.0	0.1
80°-90°	1.1	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°	584.0	44.6
0°-40°	991.4	75.7
0°-60°	1306.5	99.8
0°-90°	1309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1309.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	406	406	406	406	406	
5°	1106	851	375	75	28	118
15°	1982	1439	140	2	0	591
25°	2835	1587	13	0	0	1311
35°	3088	1079	0	0	0	1894
45°	2048	278	0	0	0	1557
55°	187	0	0	0	0	325
65°	0	1	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	1	0	0
90°	0	0	0	0	0	



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CATALOG NUMBER: LDSQA3D17R459830DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5
2.5°	716.7	722.6	710.9	706.2	690.9	694.4	668.6	658.0	641.5	614.5	601.6
5°	1105.6	1095.1	1085.7	1065.7	1054.0	1022.2	987.0	947.0	898.9	850.7	795.5
7.5°	1382.9	1374.7	1371.2	1354.7	1331.2	1298.3	1252.5	1202.0	1139.7	1075.1	991.7
10°	1569.8	1561.5	1547.4	1531.0	1512.2	1485.2	1440.5	1385.3	1317.1	1233.7	1136.2
12.5°	1692.0	1690.8	1667.3	1648.5	1625.0	1601.5	1555.7	1511.0	1444.0	1358.3	1247.8
15°	1982.2	1963.4	1932.8	1880.0	1814.2	1753.1	1679.0	1608.5	1535.7	1439.3	1316.0
17.5°	2344.1	2322.9	2271.2	2204.2	2098.5	1982.2	1855.3	1743.7	1634.4	1504.0	1358.3
20°	2599.0	2590.8	2547.3	2469.8	2357.0	2203.1	2036.2	1878.8	1724.9	1558.0	1378.2
22.5°	2762.4	2757.7	2740.0	2687.2	2572.0	2399.3	2184.3	1972.8	1787.1	1592.1	1372.4
25°	2835.2	2841.1	2843.4	2817.6	2724.8	2548.5	2293.5	2044.5	1822.4	1587.4	1327.7
27.5°	2886.9	2886.9	2896.3	2884.6	2790.6	2604.9	2335.8	2069.1	1810.6	1529.8	1233.7
30°	3011.5	3009.1	3015.0	2983.3	2852.8	2622.5	2317.0	2029.2	1743.7	1429.9	1098.6
32.5°	3065.5	3067.9	3066.7	3016.2	2864.6	2610.8	2271.2	1952.8	1620.3	1273.7	920.0
35°	3087.8	3077.3	3033.8	2918.6	2727.1	2454.5	2142.0	1823.6	1447.6	1078.6	726.1
37.5°	3013.8	2983.3	2886.9	2729.5	2495.6	2233.6	1928.1	1592.1	1218.4	846.0	546.4
40°	2798.8	2758.8	2637.8	2447.5	2233.6	1997.5	1675.5	1320.7	952.9	633.3	383.0
42.5°	2494.5	2448.6	2318.2	2152.6	1957.5	1709.6	1388.8	1034.0	697.9	437.1	243.2
45°	2048.0	2022.1	1946.9	1807.1	1615.6	1358.3	1064.5	754.3	482.9	278.5	124.5
47.5°	1583.9	1551.0	1496.9	1400.6	1240.8	996.4	744.9	512.3	310.2	137.5	25.8
50°	1218.4	1179.7	1113.9	1007.0	840.1	665.0	482.9	319.6	157.4	31.7	1.2
52.5°	701.5	709.7	678.0	609.8	517.0	398.3	279.6	161.0	35.2	1.2	0.0
55°	186.8	202.1	197.4	212.7	186.8	157.4	116.3	30.5	2.3	0.0	0.0
57.5°	0.0	0.0	1.2	2.3	7.0	10.6	3.5	1.2	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1318537

CATALOG NUMBER: LDSQA3D17R459830DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	406.5	406.5	406.5	406.5	406.5	406.5	406.5	406.5
2.5°	572.2	547.5	517.0	404.2	304.3	218.5	170.4	157.4
5°	742.6	682.7	605.1	374.8	188.0	75.2	34.1	28.2
7.5°	903.6	815.4	675.6	327.8	95.2	18.8	9.4	8.2
10°	1028.1	909.4	727.3	267.9	35.2	7.0	5.9	5.9
12.5°	1113.9	969.4	746.1	203.3	12.9	3.5	3.5	2.3
15°	1163.2	992.9	728.5	139.8	4.7	2.3	0.0	0.0
17.5°	1178.5	983.5	681.5	88.1	1.2	0.0	0.0	0.0
20°	1165.6	937.6	607.5	51.7	0.0	0.0	0.0	0.0
22.5°	1123.3	866.0	518.2	28.2	0.0	0.0	0.0	0.0
25°	1044.6	764.9	413.6	12.9	0.0	0.0	0.0	0.0
27.5°	916.5	634.5	311.4	4.7	0.0	0.0	0.0	0.0
30°	770.8	494.7	220.9	1.2	0.0	0.0	0.0	0.0
32.5°	601.6	364.2	142.2	0.0	0.0	0.0	0.0	0.0
35°	452.4	255.0	84.6	0.0	0.0	0.0	0.0	0.0
37.5°	314.9	161.0	44.6	0.0	0.0	0.0	0.0	0.0
40°	196.2	86.9	15.3	0.0	0.0	0.0	0.0	0.0
42.5°	109.3	30.5	1.2	0.0	0.0	0.0	0.0	0.0
45°	25.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
60°	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0
62.5°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0
65°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0
67.5°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0
70°	1.2	1.2	1.2	2.3	1.2	0.0	0.0	0.0
72.5°	1.2	1.2	2.3	2.3	1.2	0.0	0.0	0.0
75°	1.2	1.2	2.3	2.3	1.2	0.0	0.0	0.0
77.5°	1.2	2.3	2.3	2.3	1.2	1.2	0.0	0.0
80°	1.2	2.3	2.3	2.3	2.3	1.2	0.0	0.0
82.5°	1.2	2.3	2.3	2.3	2.3	1.2	0.0	0.0
85°	1.2	2.3	2.3	2.3	1.2	1.2	0.0	0.0
87.5°	1.2	2.3	2.3	2.3	2.3	1.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)