

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: P1318393

Luminaire Tested: LDSQA3D13R459830DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318393
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: LDSQA3D13R459830DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

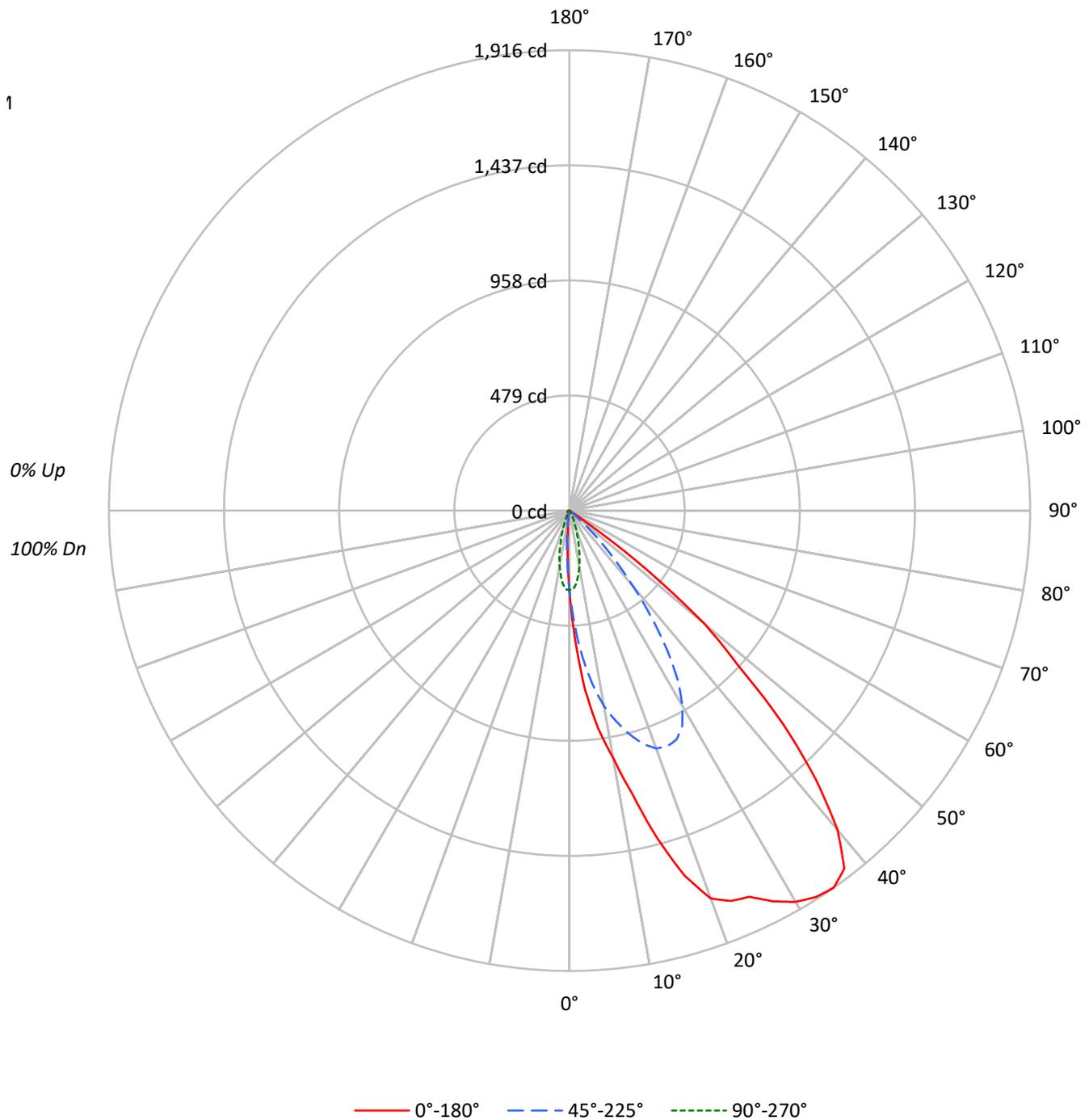
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 868.1 lumens
Efficiency: N/A
Efficacy: 59.9 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): 14.5
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

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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°	56885	56885	56885	56885	56885
5°	129643	105163	53213	21333	14557
10°	182679	144468	41132	4704	2151
15°	251739	171879	26281	1551	1302
20°	314776	193044	13709	1063	1063
25°	336860	199889	6347	836	969
30°	373887	186655	2884	875	1014
35°	402766	148811	925	925	1219
40°	389727	92199	495	1147	1461
45°	306057	43500	536	1413	1778
50°	196634	5064	777	1742	2331
55°	29876	450	871	2192	2822
60°	517	517	999	2514	2997
65°	611	611	1182	2649	3545
70°	755	755	1460	2921	4028
75°	466	998	1930	3394	4325
80°	694	1488	2182	3570	5058
85°	0	1383	2964	4347	4347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 306057 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	4.2
10°-20°	130.7	15.1
20°-30°	229.6	26.4
30°-40°	260.7	30.0
40°-50°	168.8	19.4
50°-60°	33.2	3.8
60°-70°	4.0	0.5
70°-80°	3.3	0.4
80°-90°	1.5	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°	396.4	45.7
0°-40°	657.2	75.7
0°-60°	859.1	99.0
0°-90°	868.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	868.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	330	330	330	330	330	
5°	750	608	308	123	84	80
15°	1412	964	147	9	7	407
25°	1773	1052	33	4	5	831
35°	1916	708	4	4	6	1178
45°	1257	179	2	6	7	947
55°	100	2	3	7	9	190
65°	2	2	3	6	9	1
75°	1	2	3	5	6	1
85°	0	1	2	2	2	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°	330.3	330.3	330.3	330.3	330.3	330.3	330.3	330.3	330.3	330.3	330.3
2.5°	536.5	535.0	537.2	522.7	521.9	511.0	508.1	495.8	479.1	471.1	452.2
5°	749.9	742.6	742.6	725.2	719.4	707.0	686.0	659.9	638.1	608.3	576.4
7.5°	914.7	913.2	913.2	898.0	883.4	866.0	837.7	807.9	773.1	727.4	680.9
10°	1044.6	1046.8	1040.2	1026.4	1005.4	986.5	953.1	916.8	874.0	826.1	764.4
12.5°	1208.6	1192.7	1187.6	1156.4	1129.5	1093.2	1053.3	1011.9	958.9	898.7	829.0
15°	1411.9	1391.6	1371.3	1329.9	1284.9	1229.0	1166.5	1105.6	1037.3	964.0	876.9
17.5°	1593.4	1593.4	1566.5	1501.2	1443.1	1360.4	1276.2	1194.9	1114.3	1017.7	908.8
20°	1717.5	1711.0	1690.7	1642.7	1576.7	1483.0	1373.4	1259.5	1162.2	1053.3	927.0
22.5°	1758.2	1756.7	1757.4	1729.1	1676.1	1578.9	1444.6	1310.3	1188.3	1062.0	918.3
25°	1772.7	1775.6	1782.8	1772.0	1732.0	1634.8	1488.1	1334.2	1196.3	1051.9	884.9
27.5°	1832.9	1827.1	1835.1	1827.9	1782.8	1666.7	1496.8	1328.4	1178.9	1014.8	825.4
30°	1880.1	1878.7	1892.5	1885.9	1827.1	1687.0	1488.9	1306.6	1136.1	938.6	731.7
32.5°	1907.0	1907.7	1911.3	1884.5	1797.4	1642.7	1449.7	1262.4	1055.5	839.2	609.8
35°	1915.7	1911.3	1891.0	1825.0	1705.9	1540.4	1353.1	1157.1	945.9	707.8	482.0
37.5°	1877.9	1855.4	1803.2	1704.4	1566.5	1411.9	1229.7	1024.3	795.6	559.0	359.3
40°	1733.5	1703.7	1637.7	1536.8	1408.3	1258.7	1072.2	857.3	617.0	410.1	252.6
42.5°	1517.2	1501.9	1433.0	1345.1	1236.2	1085.2	892.9	675.1	456.6	283.1	161.2
45°	1256.6	1237.0	1193.4	1115.7	1030.1	871.8	692.5	483.5	311.4	178.6	79.9
47.5°	942.2	943.7	913.9	855.1	770.9	638.8	474.0	324.5	195.3	92.2	18.1
50°	733.9	723.7	681.6	621.4	523.4	425.4	306.3	204.7	103.1	18.9	1.5
52.5°	406.5	413.0	390.5	370.9	320.1	254.1	180.8	103.8	21.8	2.2	1.5
55°	99.5	105.3	100.9	103.1	106.7	95.1	73.3	20.3	2.2	1.5	1.5
57.5°	2.2	2.2	2.2	2.2	3.6	5.1	5.1	1.5	1.5	1.5	1.5
60°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
62.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
67.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	0.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5
82.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
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°	330.3	330.3	330.3	330.3	330.3	330.3	330.3	330.3
2.5°	442.8	429.0	403.6	328.1	263.5	212.7	182.2	179.3
5°	548.1	511.0	457.3	307.8	194.5	123.4	89.3	84.2
7.5°	631.5	579.3	496.5	274.4	132.8	63.2	34.8	29.0
10°	700.5	626.5	516.9	235.2	83.5	26.9	14.5	12.3
12.5°	747.7	658.4	520.5	191.6	47.9	13.1	9.4	8.7
15°	778.2	668.6	503.1	147.4	26.9	8.7	8.0	7.3
17.5°	790.5	659.9	469.7	106.7	14.5	6.5	6.5	6.5
20°	784.7	631.5	420.3	74.8	9.4	5.8	5.8	5.8
22.5°	757.1	582.9	358.6	50.1	6.5	5.1	5.1	5.1
25°	702.7	516.9	293.3	33.4	4.4	4.4	5.1	5.1
27.5°	621.4	435.5	224.3	22.5	3.6	4.4	5.1	5.1
30°	519.0	344.8	161.2	14.5	3.6	4.4	4.4	5.1
32.5°	412.3	251.2	106.0	8.7	2.9	4.4	5.1	5.8
35°	299.1	171.3	67.5	4.4	3.6	4.4	5.1	5.8
37.5°	209.8	111.8	39.2	2.9	3.6	4.4	5.8	5.8
40°	136.5	62.4	14.5	2.2	3.6	5.1	5.8	6.5
42.5°	71.1	21.8	2.9	2.2	3.6	5.1	6.5	7.3
45°	18.1	2.9	0.7	2.2	4.4	5.8	7.3	7.3
47.5°	2.2	0.7	0.7	2.9	4.4	6.5	7.3	8.0
50°	0.7	1.5	1.5	2.9	4.4	6.5	8.0	8.7
52.5°	1.5	1.5	1.5	2.9	5.1	6.5	8.7	9.4
55°	1.5	1.5	1.5	2.9	5.1	7.3	8.7	9.4
57.5°	1.5	1.5	1.5	2.9	5.1	7.3	8.7	8.7
60°	1.5	1.5	1.5	2.9	5.1	7.3	8.7	8.7
62.5°	1.5	1.5	2.2	2.9	5.1	6.5	8.7	8.7
65°	1.5	2.2	2.2	2.9	5.1	6.5	8.0	8.7
67.5°	1.5	1.5	2.2	2.9	5.1	6.5	8.0	8.7
70°	1.5	1.5	2.2	2.9	4.4	5.8	7.3	8.0
72.5°	1.5	1.5	2.2	2.9	4.4	5.8	6.5	7.3
75°	1.5	1.5	2.2	2.9	3.6	5.1	6.5	6.5
77.5°	1.5	1.5	2.2	2.2	3.6	4.4	5.8	5.8
80°	1.5	1.5	2.2	2.2	2.9	3.6	4.4	5.1
82.5°	1.5	1.5	1.5	2.2	2.2	2.9	3.6	3.6
85°	1.5	1.5	1.5	1.5	1.5	2.2	2.2	2.2
87.5°	0.7	1.5	1.5	1.5	1.5	1.5	1.5	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)