

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: P1320144

Luminaire Tested: LDSQA3D13R459840DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

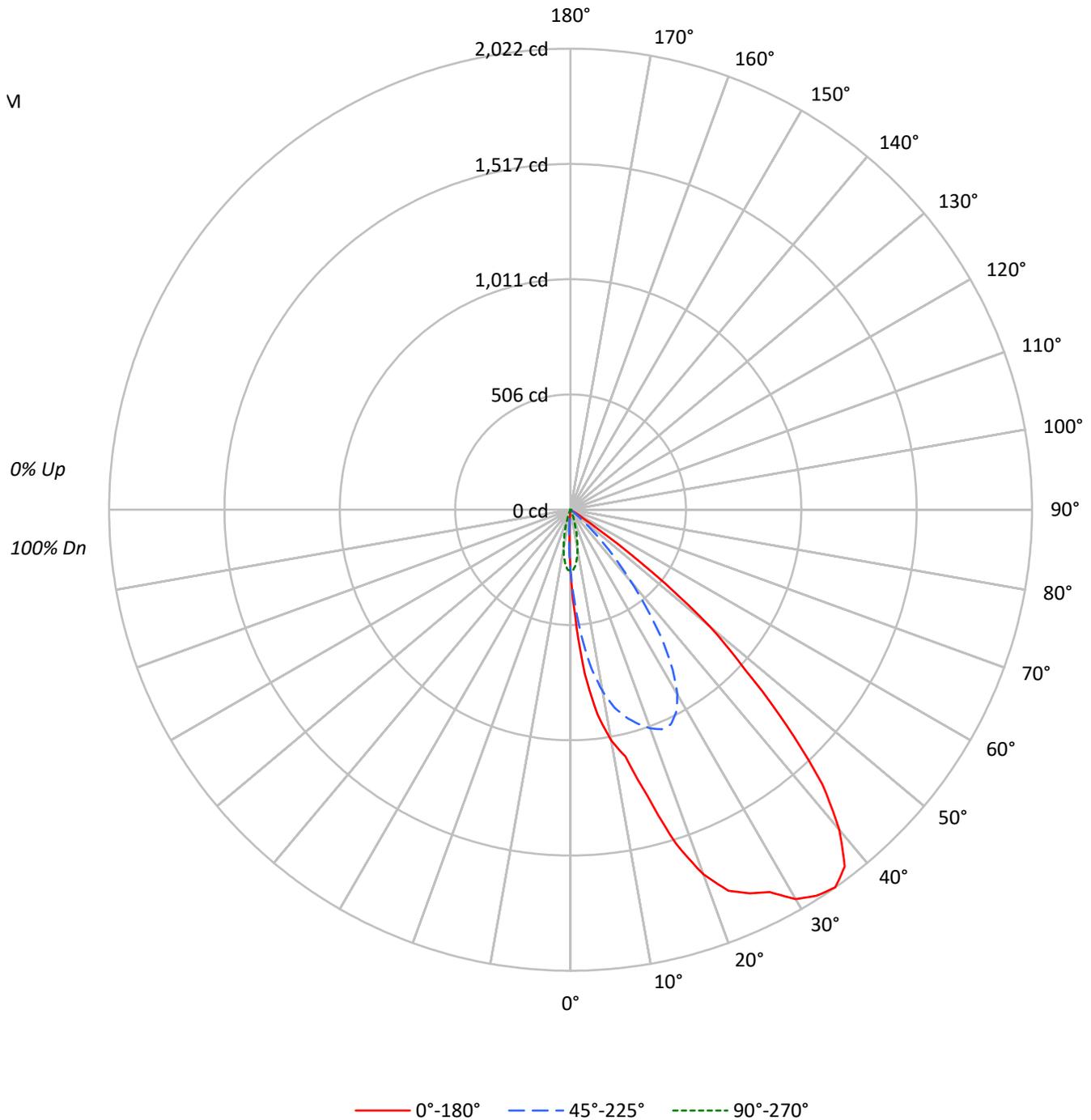
Test Method: LM-79-2019  
Report Number: P1320144  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R459840DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 857.0 lumens  
Efficiency: N/A  
Efficacy: 59.1 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): 14.5  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	45846	45846	45846	45846	45846
5°	125148	96277	42425	8506	3198
10°	179724	141250	30674	804	665
15°	231377	168010	16314	267	0
20°	311862	186941	6195	0	0
25°	352727	197495	1615	0	0
30°	392083	186178	159	0	0
35°	425031	148475	0	0	0
40°	411961	93211	0	0	0
45°	326565	44401	0	0	0
50°	213728	5573	0	0	0
55°	36722	0	0	0	0
60°	0	0	276	0	0
65°	0	326	326	0	0
70°	0	403	755	0	0
75°	0	532	998	0	0
80°	0	793	1488	793	0
85°	0	1581	2964	1581	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 326565 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.7	3.7
10°-20°	122.1	14.2
20°-30°	228.5	26.7
30°-40°	266.8	31.1
40°-50°	174.0	20.3
50°-60°	32.3	3.8
60°-70°	0.3	0.0
70°-80°	0.6	0.1
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°	382.3	44.6
0°-40°	649.1	75.7
0°-60°	855.4	99.8
0°-90°	857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	857.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	266	266	266	266	266	
5°	724	557	245	49	18	78
15°	1298	942	92	2	0	387
25°	1856	1039	8	0	0	858
35°	2022	706	0	0	0	1240
45°	1341	182	0	0	0	1020
55°	122	0	0	0	0	213
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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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2
2.5°	469.2	473.1	465.4	462.3	452.3	454.6	437.7	430.8	420.0	402.3	393.9
5°	723.9	716.9	710.8	697.7	690.0	669.2	646.2	620.0	588.5	556.9	520.8
7.5°	905.4	900.0	897.7	886.9	871.6	850.0	820.0	786.9	746.2	703.9	649.2
10°	1027.7	1022.3	1013.1	1002.3	990.0	972.3	943.1	906.9	862.3	807.7	743.9
12.5°	1107.7	1107.0	1091.6	1079.3	1063.9	1048.5	1018.5	989.3	945.4	889.3	816.9
15°	1297.7	1285.4	1265.4	1230.8	1187.7	1147.7	1099.3	1053.1	1005.4	942.3	861.6
17.5°	1534.7	1520.8	1487.0	1443.1	1373.9	1297.7	1214.6	1141.6	1070.0	984.6	889.3
20°	1701.6	1696.2	1667.7	1617.0	1543.1	1442.3	1333.1	1230.0	1129.3	1020.0	902.3
22.5°	1808.5	1805.4	1793.9	1759.3	1683.9	1570.8	1430.0	1291.6	1170.0	1042.3	898.5
25°	1856.2	1860.1	1861.6	1844.7	1783.9	1668.5	1501.6	1338.5	1193.1	1039.3	869.3
27.5°	1890.1	1890.1	1896.2	1888.5	1827.0	1705.4	1529.3	1354.7	1185.4	1001.6	807.7
30°	1971.6	1970.1	1973.9	1953.1	1867.7	1717.0	1517.0	1328.5	1141.6	936.2	719.3
32.5°	2007.0	2008.5	2007.7	1974.7	1875.4	1709.3	1487.0	1278.5	1060.8	833.9	602.3
35°	2021.6	2014.7	1986.2	1910.8	1785.4	1607.0	1402.3	1193.9	947.7	706.2	475.4
37.5°	1973.1	1953.1	1890.1	1787.0	1633.9	1462.3	1262.3	1042.3	797.7	553.9	357.7
40°	1832.4	1806.2	1727.0	1602.4	1462.3	1307.7	1097.0	864.6	623.9	414.6	250.8
42.5°	1633.1	1603.1	1517.7	1409.3	1281.6	1119.3	909.3	676.9	456.9	286.2	159.2
45°	1340.8	1323.9	1274.7	1183.1	1057.7	889.3	696.9	493.9	316.2	182.3	81.5
47.5°	1037.0	1015.4	980.0	916.9	812.3	652.3	487.7	335.4	203.1	90.0	16.9
50°	797.7	772.3	729.3	659.2	550.0	435.4	316.2	209.2	103.1	20.8	0.8
52.5°	459.2	464.6	443.9	399.2	338.5	260.8	183.1	105.4	23.1	0.8	0.0
55°	122.3	132.3	129.2	139.2	122.3	103.1	76.2	20.0	1.5	0.0	0.0
57.5°	0.0	0.0	0.8	1.5	4.6	6.9	2.3	0.8	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	0.8	0.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
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°	266.2	266.2	266.2	266.2	266.2	266.2	266.2	266.2
2.5°	374.6	358.5	338.5	264.6	199.2	143.1	111.5	103.1
5°	486.2	446.9	396.2	245.4	123.1	49.2	22.3	18.5
7.5°	591.6	533.9	442.3	214.6	62.3	12.3	6.2	5.4
10°	673.1	595.4	476.2	175.4	23.1	4.6	3.8	3.8
12.5°	729.3	634.6	488.5	133.1	8.5	2.3	2.3	1.5
15°	761.6	650.0	476.9	91.5	3.1	1.5	0.0	0.0
17.5°	771.6	643.9	446.2	57.7	0.8	0.0	0.0	0.0
20°	763.1	613.9	397.7	33.8	0.0	0.0	0.0	0.0
22.5°	735.4	566.9	339.2	18.5	0.0	0.0	0.0	0.0
25°	683.9	500.8	270.8	8.5	0.0	0.0	0.0	0.0
27.5°	600.0	415.4	203.9	3.1	0.0	0.0	0.0	0.0
30°	504.6	323.9	144.6	0.8	0.0	0.0	0.0	0.0
32.5°	393.9	238.5	93.1	0.0	0.0	0.0	0.0	0.0
35°	296.2	166.9	55.4	0.0	0.0	0.0	0.0	0.0
37.5°	206.2	105.4	29.2	0.0	0.0	0.0	0.0	0.0
40°	128.5	56.9	10.0	0.0	0.0	0.0	0.0	0.0
42.5°	71.5	20.0	0.8	0.0	0.0	0.0	0.0	0.0
45°	16.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.8	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	0.8	0.0	0.0	0.0	0.0
60°	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0
62.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
65°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
67.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
70°	0.8	0.8	0.8	1.5	0.8	0.0	0.0	0.0
72.5°	0.8	0.8	1.5	1.5	0.8	0.0	0.0	0.0
75°	0.8	0.8	1.5	1.5	0.8	0.0	0.0	0.0
77.5°	0.8	1.5	1.5	1.5	0.8	0.8	0.0	0.0
80°	0.8	1.5	1.5	1.5	1.5	0.8	0.0	0.0
82.5°	0.8	1.5	1.5	1.5	1.5	0.8	0.0	0.0
85°	0.8	1.5	1.5	1.5	0.8	0.8	0.0	0.0
87.5°	0.8	1.5	1.5	1.5	1.5	0.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)