

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: P1320428

Luminaire Tested: LDSQA3D20R409840D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R409840D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

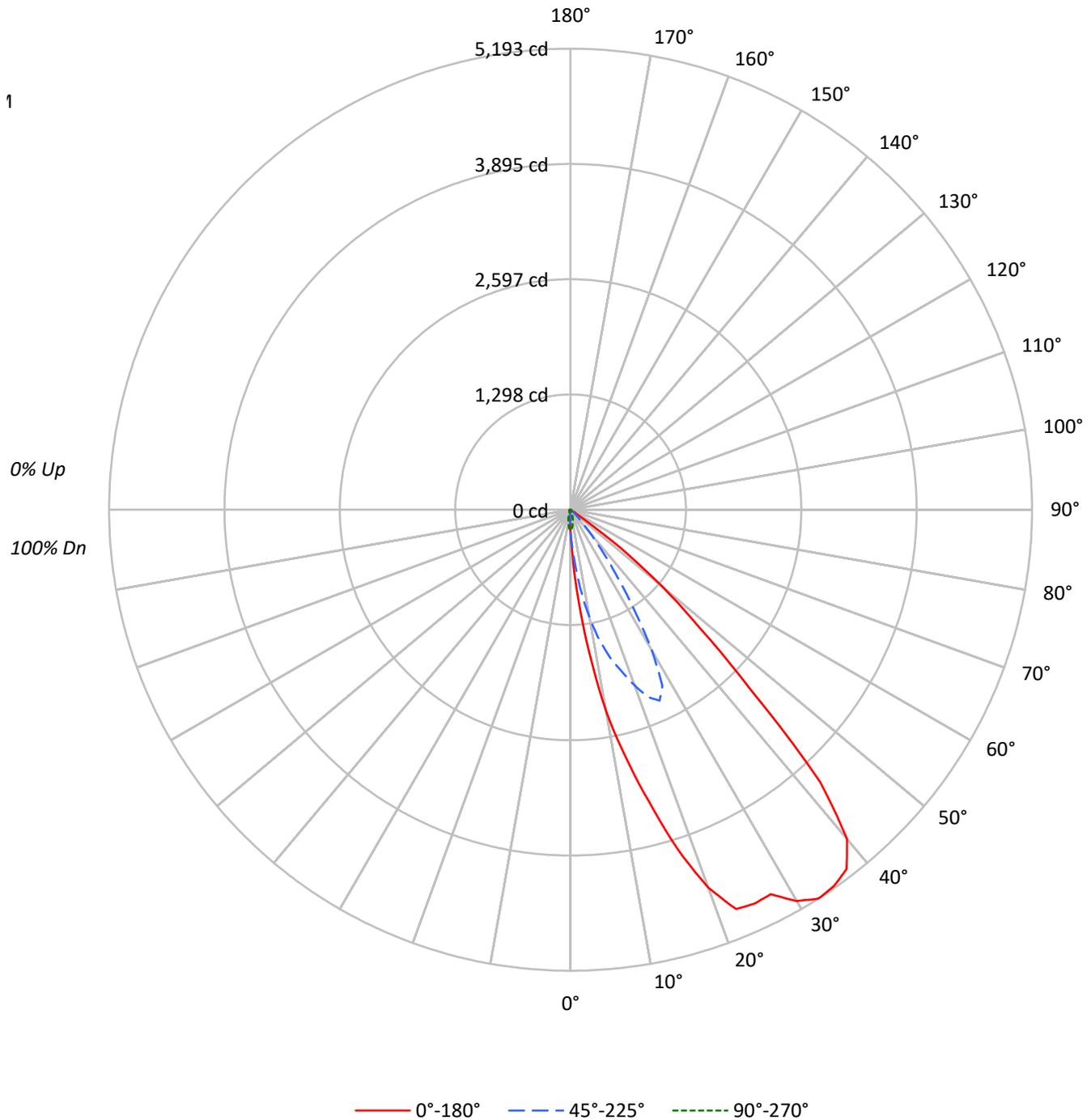
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1916.0 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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

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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	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	77	71	90	82	76	71	80	74	70	78	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	80	70	62	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	56	52	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	42	65	54	47	42	53	46	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	39043	39043	39043	39043	39043
5°	176096	112269	34991	13433	9802
10°	403832	216920	24641	4809	3690
15°	606053	307778	15298	2603	2318
20°	829835	385832	8907	1485	1778
25°	930257	450819	4618	1235	1539
30°	1011848	363904	1929	974	1611
35°	1087450	186235	673	1367	2039
40°	1087840	74281	360	1461	2540
45°	694559	24843	779	2363	3556
50°	360555	3028	1313	3028	4340
55°	31107	480	1471	3903	5345
60°	1102	551	1688	4478	6131
65°	1304	652	2649	4605	6602
70°	806	806	3273	4884	6546
75°	1065	1065	3261	5390	7519
80°	1587	1587	4860	4860	6447
85°	0	3162	9683	6323	6323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 694559 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.2	2.3
10°-20°	259.3	13.5
20°-30°	568.0	29.6
30°-40°	647.0	33.8
40°-50°	341.4	17.8
50°-60°	40.3	2.1
60°-70°	7.2	0.4
70°-80°	5.9	0.3
80°-90°	2.7	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°	871.4	45.5
0°-40°	1518.5	79.3
0°-60°	1900.1	99.2
0°-90°	1916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1916.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	227	227	227	227	227	
5°	1019	649	202	78	57	137
15°	3399	1726	86	15	13	1001
25°	4895	2372	24	6	8	2256
35°	5172	886	3	6	10	3206
45°	2852	102	3	10	15	2299
55°	104	2	5	13	18	322
65°	3	2	6	11	16	3
75°	2	2	5	8	11	2
85°	0	2	5	3	3	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	226.7	226.7	226.7	226.7	226.7	226.7	226.7	226.7	226.7	226.7	226.7
2.5°	505.2	505.2	503.6	489.0	487.4	485.8	459.9	453.4	422.7	401.6	306.1
5°	1018.6	995.9	994.3	968.4	924.7	866.4	829.1	769.2	710.9	649.4	377.3
7.5°	1622.6	1642.0	1588.6	1561.1	1463.9	1394.3	1287.4	1193.5	1062.3	939.2	435.6
10°	2309.2	2275.2	2221.8	2168.3	2063.1	1938.4	1779.7	1612.9	1423.4	1240.4	468.0
12.5°	2845.2	2801.5	2769.1	2696.2	2592.6	2432.3	2242.8	2019.4	1768.4	1504.4	466.4
15°	3399.1	3355.3	3282.5	3217.7	3063.8	2884.1	2678.4	2383.7	2076.0	1726.2	432.4
17.5°	4007.9	3951.3	3870.3	3771.5	3622.5	3423.3	3162.6	2803.1	2367.5	1907.6	370.8
20°	4527.8	4493.7	4412.8	4296.2	4150.4	3956.1	3654.9	3256.6	2725.4	2105.2	294.7
22.5°	4867.8	4837.1	4782.0	4680.0	4569.9	4362.6	4087.3	3650.1	3025.0	2284.9	223.5
25°	4895.4	4882.4	4867.8	4833.8	4767.4	4620.1	4351.2	3880.0	3211.2	2372.4	165.2
27.5°	4880.8	4875.9	4872.7	4854.9	4811.1	4665.4	4390.1	3914.0	3186.9	2236.3	121.5
30°	5088.1	5073.5	5065.4	5007.1	4892.1	4667.0	4307.5	3731.0	2832.3	1829.9	87.4
32.5°	5193.3	5190.1	5182.0	5125.3	4963.4	4670.3	4168.3	3288.9	2246.1	1321.4	59.9
35°	5172.3	5156.1	5126.9	5021.7	4796.6	4429.0	3718.1	2626.6	1621.0	885.8	38.9
37.5°	5101.0	5063.8	5007.1	4817.6	4518.0	4016.0	3015.3	1933.5	1102.8	573.3	22.7
40°	4838.7	4788.5	4699.4	4467.8	4074.3	3310.0	2229.9	1306.8	723.9	330.4	6.5
42.5°	4160.2	4095.4	4030.6	3771.5	3321.3	2467.9	1467.1	808.1	412.9	181.4	1.6
45°	2851.7	2770.7	2681.7	2493.8	2132.7	1494.7	872.8	455.0	213.8	102.0	1.6
47.5°	1980.5	1943.2	1787.8	1548.1	1187.0	791.9	451.8	223.5	113.4	47.0	1.6
50°	1345.7	1303.6	1122.2	890.7	631.6	378.9	207.3	111.7	50.2	11.3	1.6
52.5°	706.0	654.2	539.2	411.3	255.9	158.7	90.7	48.6	14.6	1.6	1.6
55°	103.6	95.5	77.7	63.2	56.7	43.7	25.9	11.3	1.6	1.6	3.2
57.5°	3.2	3.2	3.2	3.2	4.9	4.9	3.2	1.6	1.6	1.6	3.2
60°	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6	3.2
62.5°	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6	3.2
65°	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6	3.2
67.5°	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6	3.2	4.9
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.9
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	4.9
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.9
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	4.9
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2
82.5°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	4.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2
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):

	90°	112.5°	135°	157.5°	180°
0°	226.7	226.7	226.7	226.7	226.7
2.5°	223.5	165.2	127.9	110.1	108.5
5°	202.4	118.2	77.7	59.9	56.7
7.5°	171.7	82.6	45.3	32.4	30.8
10°	140.9	56.7	27.5	22.7	21.1
12.5°	111.7	37.2	19.4	17.8	16.2
15°	85.8	24.3	14.6	13.0	13.0
17.5°	64.8	16.2	11.3	11.3	11.3
20°	48.6	11.3	8.1	9.7	9.7
22.5°	34.0	8.1	6.5	8.1	8.1
25°	24.3	6.5	6.5	8.1	8.1
27.5°	16.2	4.9	4.9	6.5	8.1
30°	9.7	3.2	4.9	6.5	8.1
32.5°	4.9	3.2	4.9	8.1	8.1
35°	3.2	4.9	6.5	8.1	9.7
37.5°	1.6	4.9	6.5	9.7	9.7
40°	1.6	4.9	6.5	9.7	11.3
42.5°	3.2	6.5	8.1	11.3	13.0
45°	3.2	6.5	9.7	13.0	14.6
47.5°	3.2	6.5	11.3	14.6	14.6
50°	4.9	8.1	11.3	14.6	16.2
52.5°	4.9	8.1	11.3	16.2	17.8
55°	4.9	8.1	13.0	16.2	17.8
57.5°	4.9	9.7	13.0	16.2	17.8
60°	4.9	8.1	13.0	16.2	17.8
62.5°	6.5	8.1	11.3	16.2	16.2
65°	6.5	8.1	11.3	16.2	16.2
67.5°	6.5	8.1	11.3	14.6	14.6
70°	6.5	8.1	9.7	13.0	13.0
72.5°	6.5	8.1	9.7	11.3	13.0
75°	4.9	6.5	8.1	9.7	11.3
77.5°	4.9	6.5	6.5	9.7	9.7
80°	4.9	4.9	4.9	6.5	6.5
82.5°	4.9	4.9	3.2	4.9	4.9
85°	4.9	3.2	3.2	3.2	3.2
87.5°	3.2	3.2	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)