

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: P1310704

Luminaire Tested: LDSQA3D20R459035D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310704
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: LDSQA3D20R459035D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

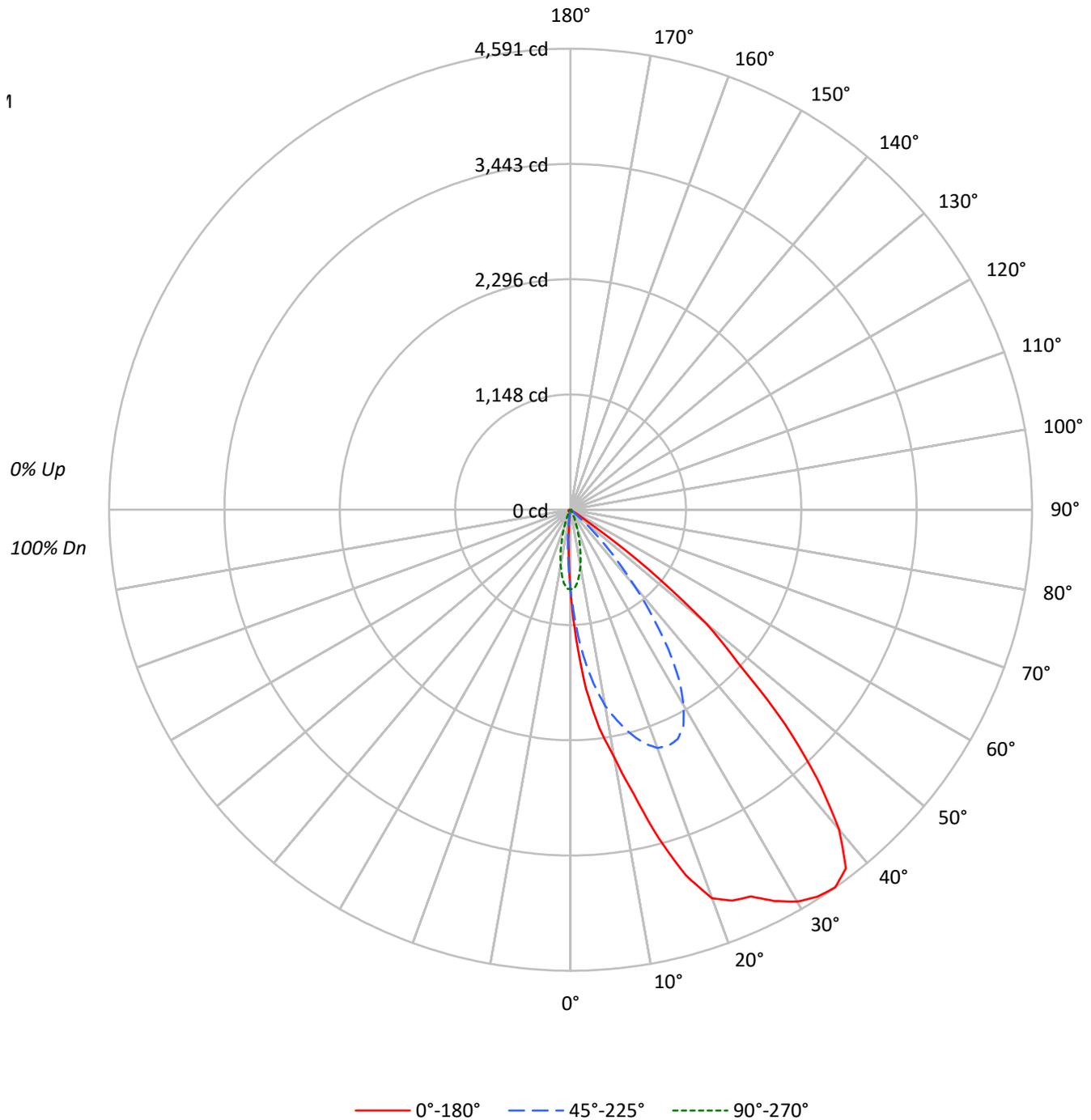
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2080.0 lumens
Efficiency: N/A
Efficacy: 72.2 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 (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°	136314	136314	136314	136314	136314
5°	310649	252008	127517	51121	34887
10°	437758	346191	98562	11262	5176
15°	603253	411886	62957	3726	3102
20°	754307	462587	32843	2548	2548
25°	807214	478981	15202	1976	2318
30°	895969	447288	6921	2068	2426
35°	965151	356576	2187	2187	2922
40°	933905	220954	1169	2743	3530
45°	733382	104219	1267	3385	4238
50°	471210	12110	1876	4207	5600
55°	71552	1051	2102	5225	6786
60°	1206	1206	2411	5993	7199
65°	1426	1426	2853	6398	8517
70°	1762	1762	3525	6999	9618
75°	1131	2329	4658	8118	10447
80°	1686	3471	5157	8629	12100
85°	0	3359	6916	10275	10275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 733382 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	4.2
10°-20°	313.2	15.1
20°-30°	550.2	26.5
30°-40°	624.8	30.0
40°-50°	404.6	19.4
50°-60°	79.4	3.8
60°-70°	9.7	0.5
70°-80°	8.0	0.4
80°-90°	3.7	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°	950.0	45.7
0°-40°	1574.7	75.7
0°-60°	2058.7	99.0
0°-90°	2080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2080.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	792	792	792	792	792	
5°	1797	1458	738	296	202	191
15°	3383	2310	353	21	17	975
25°	4248	2521	80	10	12	1991
35°	4591	1696	10	10	14	2822
45°	3011	428	5	14	17	2270
55°	238	4	7	17	23	455
65°	4	4	7	16	21	3
75°	2	4	7	12	16	2
85°	0	2	4	5	5	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°	791.5	791.5	791.5	791.5	791.5	791.5	791.5	791.5	791.5	791.5	791.5
2.5°	1285.5	1282.0	1287.2	1252.5	1250.7	1224.6	1217.7	1188.1	1148.1	1128.9	1083.7
5°	1796.9	1779.5	1779.5	1737.8	1723.9	1694.3	1643.8	1581.2	1529.0	1457.7	1381.2
7.5°	2191.8	2188.3	2188.3	2151.8	2117.0	2075.2	2007.4	1936.1	1852.6	1743.0	1631.7
10°	2503.2	2508.4	2492.7	2459.7	2409.2	2364.0	2284.0	2197.0	2094.4	1979.6	1831.7
12.5°	2896.3	2858.0	2845.9	2771.1	2706.7	2619.7	2524.0	2424.9	2297.9	2153.5	1986.5
15°	3383.4	3334.7	3286.0	3186.8	3079.0	2945.0	2795.4	2649.3	2485.8	2310.1	2101.3
17.5°	3818.2	3818.2	3753.9	3597.3	3458.2	3259.9	3058.1	2863.2	2670.2	2438.8	2177.9
20°	4115.7	4100.0	4051.3	3936.5	3778.2	3553.8	3291.2	3018.1	2785.0	2524.0	2221.4
22.5°	4213.1	4209.6	4211.4	4143.5	4016.6	3783.5	3461.6	3139.8	2847.6	2544.9	2200.5
25°	4247.9	4254.9	4272.3	4246.2	4150.5	3917.4	3566.0	3197.2	2866.7	2520.6	2120.5
27.5°	4392.3	4378.4	4397.5	4380.1	4272.3	3993.9	3586.9	3183.3	2825.0	2431.8	1977.8
30°	4505.4	4501.9	4534.9	4519.3	4378.4	4042.6	3567.8	3131.1	2722.3	2249.2	1753.4
32.5°	4569.7	4571.5	4580.2	4515.8	4307.1	3936.5	3473.8	3025.0	2529.3	2010.9	1461.2
35°	4590.6	4580.2	4531.4	4373.2	4087.9	3691.3	3242.5	2772.8	2266.6	1696.0	1155.0
37.5°	4500.1	4446.2	4321.0	4084.4	3753.9	3383.4	2946.7	2454.5	1906.5	1339.4	861.1
40°	4154.0	4082.7	3924.4	3682.6	3374.7	3016.3	2569.3	2054.4	1478.6	982.8	605.4
42.5°	3635.6	3599.1	3433.8	3223.3	2962.4	2600.6	2139.6	1617.8	1094.2	678.4	386.2
45°	3011.1	2964.1	2859.8	2673.6	2468.4	2089.2	1659.5	1158.5	746.3	427.9	191.3
47.5°	2257.9	2261.4	2190.1	2049.2	1847.4	1530.8	1135.9	777.6	467.9	220.9	43.5
50°	1758.7	1734.3	1633.4	1489.0	1254.2	1019.4	734.1	490.5	247.0	45.2	3.5
52.5°	974.1	989.8	935.9	888.9	767.1	608.8	433.1	248.8	52.2	5.2	3.5
55°	238.3	252.2	241.8	247.0	255.7	227.9	175.7	48.7	5.2	3.5	3.5
57.5°	5.2	5.2	5.2	5.2	8.7	12.2	12.2	3.5	3.5	3.5	3.5
60°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
62.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
65°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
67.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
70°	3.5	3.5	3.5	1.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	3.5
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	3.5
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5
82.5°	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	3.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
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°	791.5	791.5	791.5	791.5	791.5	791.5	791.5	791.5
2.5°	1061.1	1028.1	967.2	786.3	631.4	509.7	436.6	429.7
5°	1313.3	1224.6	1095.9	737.6	466.2	295.7	214.0	201.8
7.5°	1513.4	1388.1	1189.8	657.5	318.3	151.3	83.5	69.6
10°	1678.6	1501.2	1238.5	563.6	200.0	64.4	34.8	29.6
12.5°	1791.7	1577.7	1247.2	459.2	114.8	31.3	22.6	20.9
15°	1864.8	1602.1	1205.5	353.1	64.4	20.9	19.1	17.4
17.5°	1894.3	1581.2	1125.5	255.7	34.8	15.7	15.7	15.7
20°	1880.4	1513.4	1007.2	179.2	22.6	13.9	13.9	13.9
22.5°	1814.3	1396.8	859.3	120.0	15.7	12.2	12.2	12.2
25°	1683.9	1238.5	702.8	80.0	10.4	10.4	12.2	12.2
27.5°	1489.0	1043.7	537.5	53.9	8.7	10.4	12.2	12.2
30°	1243.8	826.3	386.2	34.8	8.7	10.4	10.4	12.2
32.5°	988.0	601.9	254.0	20.9	7.0	10.4	12.2	13.9
35°	716.7	410.5	161.8	10.4	8.7	10.4	12.2	13.9
37.5°	502.7	267.9	93.9	7.0	8.7	10.4	13.9	13.9
40°	327.0	149.6	34.8	5.2	8.7	12.2	13.9	15.7
42.5°	170.5	52.2	7.0	5.2	8.7	12.2	15.7	17.4
45°	43.5	7.0	1.7	5.2	10.4	13.9	17.4	17.4
47.5°	5.2	1.7	1.7	7.0	10.4	15.7	17.4	19.1
50°	1.7	3.5	3.5	7.0	10.4	15.7	19.1	20.9
52.5°	3.5	3.5	3.5	7.0	12.2	15.7	20.9	22.6
55°	3.5	3.5	3.5	7.0	12.2	17.4	20.9	22.6
57.5°	3.5	3.5	3.5	7.0	12.2	17.4	20.9	20.9
60°	3.5	3.5	3.5	7.0	12.2	17.4	20.9	20.9
62.5°	3.5	3.5	5.2	7.0	12.2	15.7	20.9	20.9
65°	3.5	5.2	5.2	7.0	12.2	15.7	19.1	20.9
67.5°	3.5	3.5	5.2	7.0	12.2	15.7	19.1	20.9
70°	3.5	3.5	5.2	7.0	10.4	13.9	17.4	19.1
72.5°	3.5	3.5	5.2	7.0	10.4	13.9	15.7	17.4
75°	3.5	3.5	5.2	7.0	8.7	12.2	15.7	15.7
77.5°	3.5	3.5	5.2	5.2	8.7	10.4	13.9	13.9
80°	3.5	3.5	5.2	5.2	7.0	8.7	10.4	12.2
82.5°	3.5	3.5	3.5	5.2	5.2	7.0	8.7	8.7
85°	3.5	3.5	3.5	3.5	3.5	5.2	5.2	5.2
87.5°	1.7	3.5	3.5	3.5	3.5	3.5	3.5	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)