

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: P1315952

Luminaire Tested: LDSQA3D20R409735D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315952
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: LDSQA3D20R409735D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

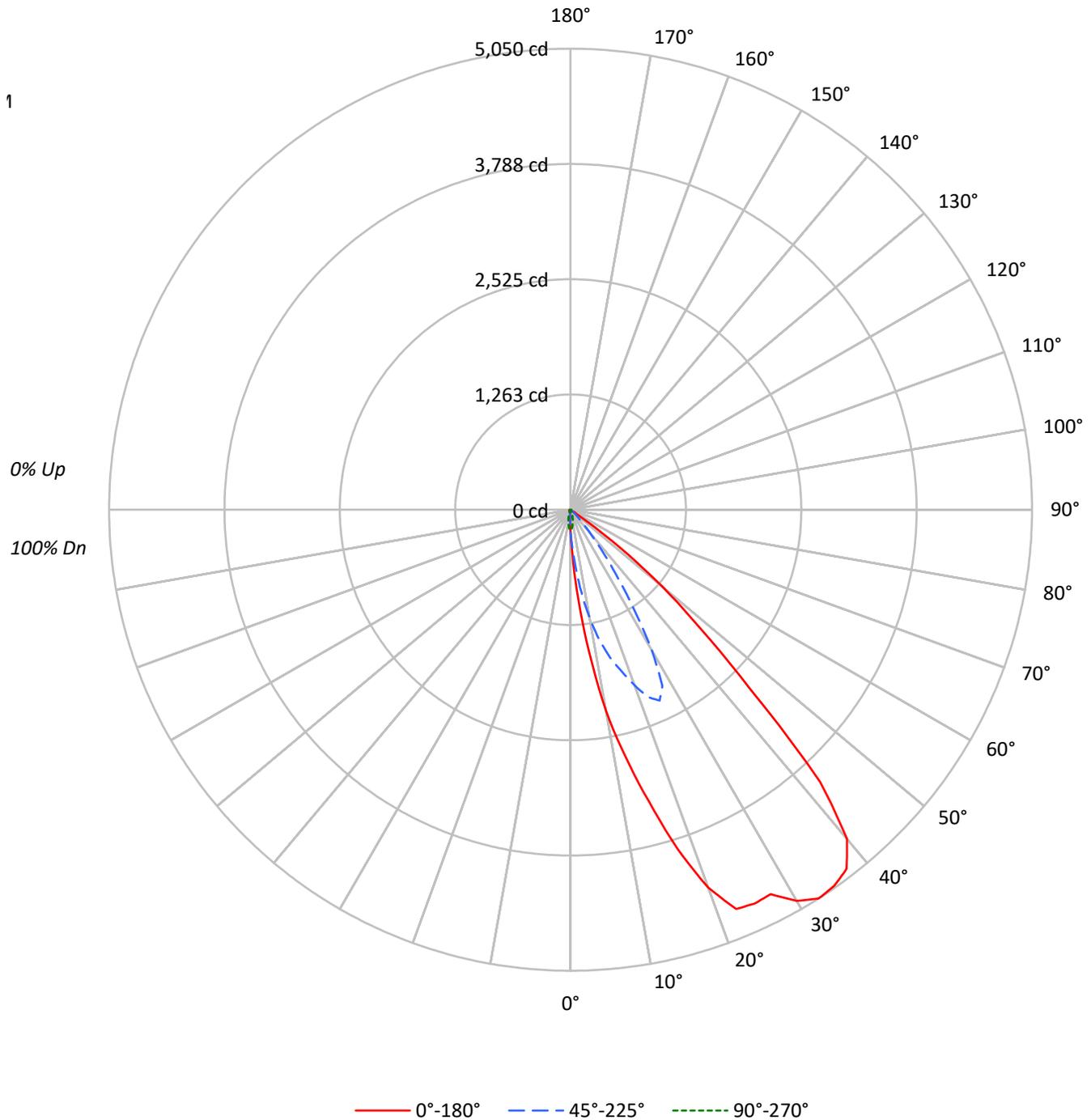
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1863.0 lumens
Efficiency: N/A
Efficacy: 64.7 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): 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
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	97	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	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	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	60	56	54		
7	75	64	57	52	74	63	56	52	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	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	37958	37958	37958	37958	37958
5°	171221	109157	34023	13070	9526
10°	392657	210922	23958	4687	3585
15°	589275	299273	14888	2532	2247
20°	806870	375147	8651	1448	1723
25°	904508	438353	4485	1197	1501
30°	983848	353842	1869	935	1571
35°	1057364	181084	652	1325	1976
40°	1057736	72212	360	1416	2473
45°	675342	24161	755	2289	3459
50°	350588	2947	1259	2947	4207
55°	30266	480	1411	3783	5195
60°	1068	551	1619	4340	5959
65°	1263	652	2567	4483	6398
70°	806	806	3172	4733	6345
75°	1065	1065	3127	5257	7320
80°	1587	1587	4661	4661	6248
85°	0	3162	9287	6126	6126

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 675342 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	2.3
10°-20°	252.2	13.5
20°-30°	552.2	29.6
30°-40°	629.1	33.8
40°-50°	331.9	17.8
50°-60°	39.1	2.1
60°-70°	7.0	0.4
70°-80°	5.8	0.3
80°-90°	2.6	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°	847.3	45.5
0°-40°	1476.5	79.3
0°-60°	1847.5	99.2
0°-90°	1863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1863.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	220	220	220	220	220	
5°	990	631	197	76	55	133
15°	3305	1678	84	14	13	974
25°	4760	2307	24	6	8	2193
35°	5029	861	3	6	9	3117
45°	2773	99	3	9	14	2235
55°	101	2	5	13	17	313
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°	220.4	220.4	220.4	220.4	220.4	220.4	220.4	220.4	220.4	220.4	220.4
2.5°	491.3	491.3	489.7	475.5	473.9	472.4	447.2	440.9	411.0	390.5	297.6
5°	990.4	968.4	966.8	941.6	899.1	842.4	806.2	747.9	691.2	631.4	366.9
7.5°	1577.7	1596.6	1544.7	1517.9	1423.4	1355.7	1251.8	1160.5	1032.9	913.3	423.6
10°	2245.3	2212.3	2160.3	2108.4	2006.0	1884.8	1730.5	1568.3	1384.1	1206.1	455.1
12.5°	2766.5	2724.0	2692.5	2621.7	2520.9	2365.0	2180.8	1963.5	1719.4	1462.8	453.5
15°	3305.0	3262.5	3191.7	3128.7	2979.1	2804.3	2604.3	2317.8	2018.6	1678.5	420.4
17.5°	3897.1	3842.0	3763.2	3667.2	3522.3	3328.7	3075.1	2725.6	2302.0	1854.8	360.6
20°	4402.5	4369.4	4290.7	4177.3	4035.6	3846.7	3553.8	3166.5	2650.0	2046.9	286.6
22.5°	4733.2	4703.3	4649.7	4550.5	4443.4	4241.9	3974.2	3549.1	2941.3	2221.7	217.3
25°	4759.9	4747.3	4733.2	4700.1	4635.5	4492.3	4230.9	3772.7	3122.4	2306.8	160.6
27.5°	4745.8	4741.0	4737.9	4720.6	4678.1	4536.3	4268.7	3805.7	3098.8	2174.5	118.1
30°	4947.3	4933.1	4925.3	4868.6	4756.8	4537.9	4188.4	3627.8	2753.9	1779.3	85.0
32.5°	5049.7	5046.5	5038.6	4983.5	4826.1	4541.1	4053.0	3198.0	2183.9	1284.9	58.3
35°	5029.2	5013.4	4985.1	4882.8	4663.9	4306.5	3615.2	2554.0	1576.1	861.3	37.8
37.5°	4959.9	4923.7	4868.6	4684.4	4393.1	3904.9	2931.9	1880.0	1072.3	557.4	22.0
40°	4704.8	4656.0	4569.4	4344.3	3961.6	3218.4	2168.2	1270.7	703.8	321.2	6.3
42.5°	4045.1	3982.1	3919.1	3667.2	3229.5	2399.7	1426.6	785.7	401.5	176.4	1.6
45°	2772.8	2694.1	2607.5	2424.8	2073.7	1453.3	848.7	442.5	207.8	99.2	1.6
47.5°	1925.7	1889.5	1738.3	1505.3	1154.2	770.0	439.3	217.3	110.2	45.7	1.6
50°	1308.5	1267.5	1091.2	866.0	614.1	368.5	201.5	108.6	48.8	11.0	1.6
52.5°	686.5	636.1	524.3	399.9	248.8	154.3	88.2	47.2	14.2	1.6	1.6
55°	100.8	92.9	75.6	61.4	55.1	42.5	25.2	11.0	1.6	1.6	3.1
57.5°	3.1	3.1	3.1	3.1	4.7	4.7	3.1	1.6	1.6	1.6	3.1
60°	3.1	3.1	3.1	3.1	3.1	1.6	1.6	1.6	1.6	1.6	3.1
62.5°	3.1	3.1	3.1	3.1	3.1	1.6	1.6	1.6	1.6	1.6	3.1
65°	3.1	3.1	3.1	3.1	3.1	1.6	1.6	1.6	1.6	1.6	3.1
67.5°	3.1	3.1	3.1	3.1	1.6	1.6	1.6	1.6	1.6	3.1	4.7
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.7
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1	4.7
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.7
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1	4.7
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1
82.5°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	4.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.1
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°	220.4	220.4	220.4	220.4	220.4
2.5°	217.3	160.6	124.4	107.1	105.5
5°	196.8	114.9	75.6	58.3	55.1
7.5°	166.9	80.3	44.1	31.5	29.9
10°	137.0	55.1	26.8	22.0	20.5
12.5°	108.6	36.2	18.9	17.3	15.7
15°	83.5	23.6	14.2	12.6	12.6
17.5°	63.0	15.7	11.0	11.0	11.0
20°	47.2	11.0	7.9	9.4	9.4
22.5°	33.1	7.9	6.3	7.9	7.9
25°	23.6	6.3	6.3	7.9	7.9
27.5°	15.7	4.7	4.7	6.3	7.9
30°	9.4	3.1	4.7	6.3	7.9
32.5°	4.7	3.1	4.7	7.9	7.9
35°	3.1	4.7	6.3	7.9	9.4
37.5°	1.6	4.7	6.3	9.4	9.4
40°	1.6	4.7	6.3	9.4	11.0
42.5°	3.1	6.3	7.9	11.0	12.6
45°	3.1	6.3	9.4	12.6	14.2
47.5°	3.1	6.3	11.0	14.2	14.2
50°	4.7	7.9	11.0	14.2	15.7
52.5°	4.7	7.9	11.0	15.7	17.3
55°	4.7	7.9	12.6	15.7	17.3
57.5°	4.7	9.4	12.6	15.7	17.3
60°	4.7	7.9	12.6	15.7	17.3
62.5°	6.3	7.9	11.0	15.7	15.7
65°	6.3	7.9	11.0	15.7	15.7
67.5°	6.3	7.9	11.0	14.2	14.2
70°	6.3	7.9	9.4	12.6	12.6
72.5°	6.3	7.9	9.4	11.0	12.6
75°	4.7	6.3	7.9	9.4	11.0
77.5°	4.7	6.3	6.3	9.4	9.4
80°	4.7	4.7	4.7	6.3	6.3
82.5°	4.7	4.7	3.1	4.7	4.7
85°	4.7	3.1	3.1	3.1	3.1
87.5°	3.1	3.1	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)