

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: P1314038

Luminaire Tested: LDSQA3D20R559727D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R559727D010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

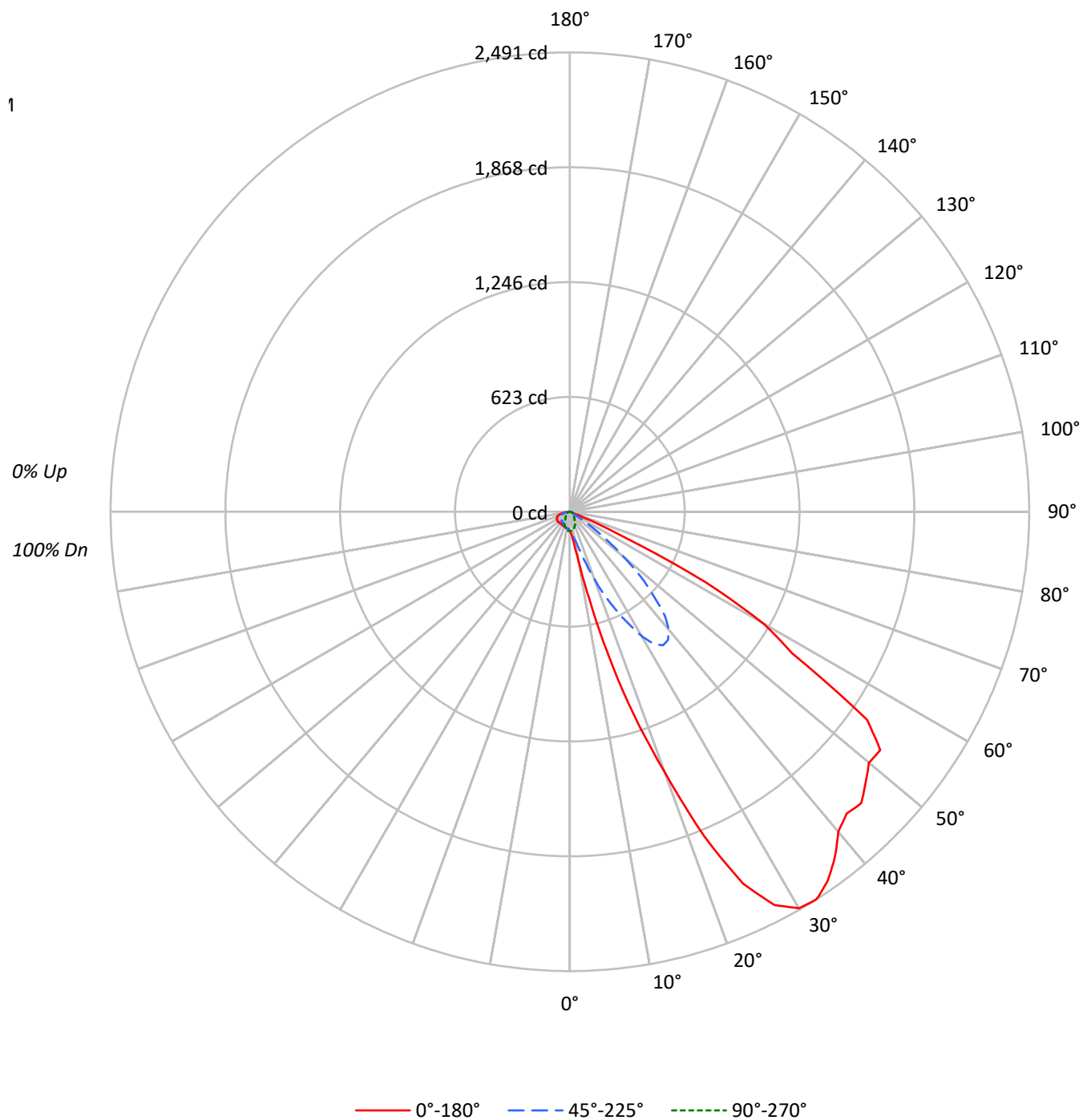
Lumens per Lamp: N/A
Luminaire Lumens: 1602.0 lumens
Efficiency: N/A
Efficacy: 55.6 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	17791	17791	17791	17791	17791
5°	22751	20798	17859	16648	16147
10°	46291	26494	17331	15844	15844
15°	142086	40634	16154	15387	15904
20°	274730	71074	14534	15047	15817
25°	422828	110558	12637	14518	15867
30°	493724	154538	10421	14358	16327
35°	513061	185688	8620	14276	16967
40°	509151	187433	7959	14951	18458
45°	544356	155147	7575	16197	19996
50°	567344	102403	7582	17442	22372
55°	590764	44619	7657	19127	24651
60°	417330	10230	7784	20977	27797
65°	136110	3464	7498	22495	31134
70°	4280	3575	7855	24221	35651
75°	3793	3793	6588	25419	39526
80°	2777	4166	7042	25291	42151
85°	2766	5533	8299	25096	41892

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 600271 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	0.7
10°-20°	68.0	4.2
20°-30°	228.0	14.2
30°-40°	374.5	23.4
40°-50°	417.7	26.1
50°-60°	351.6	21.9
60°-70°	119.3	7.4
70°-80°	23.3	1.5
80°-90°	8.7	0.5
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°	307.0	19.2
0°-40°	681.4	42.5
0°-60°	1450.7	90.6
0°-90°	1602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1602.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	103	103	103	103	103	
5°	132	120	103	96	93	16
15°	797	228	91	86	89	253
25°	2225	582	66	76	84	1000
35°	2440	883	41	68	81	1515
45°	2235	637	31	66	82	1707
55°	1968	149	26	64	82	1602
65°	334	8	18	55	76	452
75°	6	6	10	38	59	6
85°	1	3	4	13	21	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3	103.3
2.5°	113.2	113.2	113.2	113.2	113.2	113.2	111.8	107.6	104.7	100.5	99.1
5°	131.6	131.6	131.6	130.2	130.2	127.4	120.3	110.4	103.3	97.7	96.3
7.5°	169.9	168.4	165.6	164.2	159.9	158.5	133.1	113.2	101.9	94.8	93.4
10°	264.7	261.9	257.6	242.0	227.9	218.0	151.5	114.7	99.1	92.0	90.6
12.5°	477.0	471.3	450.1	417.6	377.9	358.1	181.2	116.1	94.8	89.2	89.2
15°	796.9	789.8	750.2	704.9	632.7	593.1	227.9	114.7	90.6	84.9	86.3
17.5°	1150.8	1131.0	1089.9	1030.5	932.8	886.1	297.2	111.8	84.9	82.1	84.9
20°	1499.0	1493.3	1425.4	1344.7	1224.4	1162.1	387.8	107.6	79.3	77.9	82.1
22.5°	1906.6	1882.6	1810.4	1724.0	1558.4	1476.3	485.5	101.9	73.6	73.6	79.3
25°	2225.1	2196.8	2140.2	2039.7	1882.6	1794.8	581.8	94.8	66.5	69.4	76.4
27.5°	2403.5	2370.9	2328.4	2242.1	2120.4	2042.5	678.0	86.3	59.4	65.1	73.6
30°	2482.7	2474.2	2443.1	2379.4	2267.6	2198.2	777.1	76.4	52.4	60.9	72.2
32.5°	2491.2	2495.5	2482.7	2441.7	2356.7	2297.3	850.7	67.9	46.7	58.0	69.4
35°	2440.3	2455.8	2464.3	2447.3	2392.1	2344.0	883.2	58.0	41.0	55.2	67.9
37.5°	2361.0	2389.3	2417.6	2421.9	2387.9	2356.7	874.8	49.5	38.2	53.8	67.9
40°	2264.7	2290.2	2348.3	2385.1	2373.7	2351.1	833.7	41.0	35.4	51.0	66.5
42.5°	2220.9	2226.5	2288.8	2351.1	2348.3	2329.9	761.5	32.6	32.6	51.0	66.5
45°	2235.0	2209.5	2250.6	2322.8	2318.5	2294.5	637.0	25.5	31.1	49.5	66.5
47.5°	2175.6	2140.2	2209.5	2294.5	2278.9	2243.5	526.6	18.4	29.7	48.1	65.1
50°	2117.5	2111.9	2165.7	2208.1	2186.9	2167.1	382.2	14.2	28.3	46.7	65.1
52.5°	2121.8	2111.9	2117.5	2116.1	2073.7	2052.4	261.9	11.3	26.9	45.3	65.1
55°	1967.5	1936.4	1906.6	1915.1	1918.0	1903.8	148.6	9.9	25.5	45.3	63.7
57.5°	1429.6	1421.1	1453.7	1545.7	1617.9	1626.4	72.2	9.9	24.1	43.9	62.3
60°	1211.6	1206.0	1207.4	1234.3	1272.5	1248.4	29.7	9.9	22.6	42.5	60.9
62.5°	835.1	890.3	913.0	975.3	949.8	915.8	11.3	11.3	21.2	39.6	59.4
65°	334.0	332.6	363.8	393.5	385.0	359.5	8.5	9.9	18.4	36.8	55.2
67.5°	77.9	70.8	60.9	52.4	43.9	35.4	8.5	9.9	17.0	34.0	52.4
70°	8.5	8.5	8.5	8.5	8.5	7.1	7.1	9.9	15.6	31.1	48.1
72.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	8.5	12.7	26.9	43.9
75°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.1	9.9	22.6	38.2
77.5°	4.2	4.2	4.2	5.7	4.2	5.7	5.7	7.1	8.5	18.4	32.6
80°	2.8	2.8	4.2	4.2	4.2	4.2	4.2	5.7	7.1	15.6	25.5
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	5.7	11.3	18.4
85°	1.4	1.4	1.4	1.4	1.4	2.8	2.8	4.2	4.2	8.5	12.7
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	4.2	4.2	5.7
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):

	157.5°	180°
0°	103.3	103.3
2.5°	97.7	97.7
5°	94.8	93.4
7.5°	92.0	92.0
10°	90.6	90.6
12.5°	89.2	90.6
15°	89.2	89.2
17.5°	86.3	87.8
20°	84.9	86.3
22.5°	83.5	84.9
25°	82.1	83.5
27.5°	80.7	82.1
30°	79.3	82.1
32.5°	77.9	80.7
35°	77.9	80.7
37.5°	77.9	82.1
40°	77.9	82.1
42.5°	77.9	82.1
45°	77.9	82.1
47.5°	77.9	82.1
50°	77.9	83.5
52.5°	77.9	83.5
55°	77.9	82.1
57.5°	76.4	82.1
60°	76.4	80.7
62.5°	75.0	79.3
65°	72.2	76.4
67.5°	69.4	75.0
70°	65.1	70.8
72.5°	60.9	65.1
75°	55.2	59.4
77.5°	48.1	51.0
80°	38.2	42.5
82.5°	29.7	32.6
85°	19.8	21.2
87.5°	8.5	9.9
90°	0.0	0.0

(END OF REPORT)