

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: P1319591

Luminaire Tested: LDSQA3D20R609835D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R609835D010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

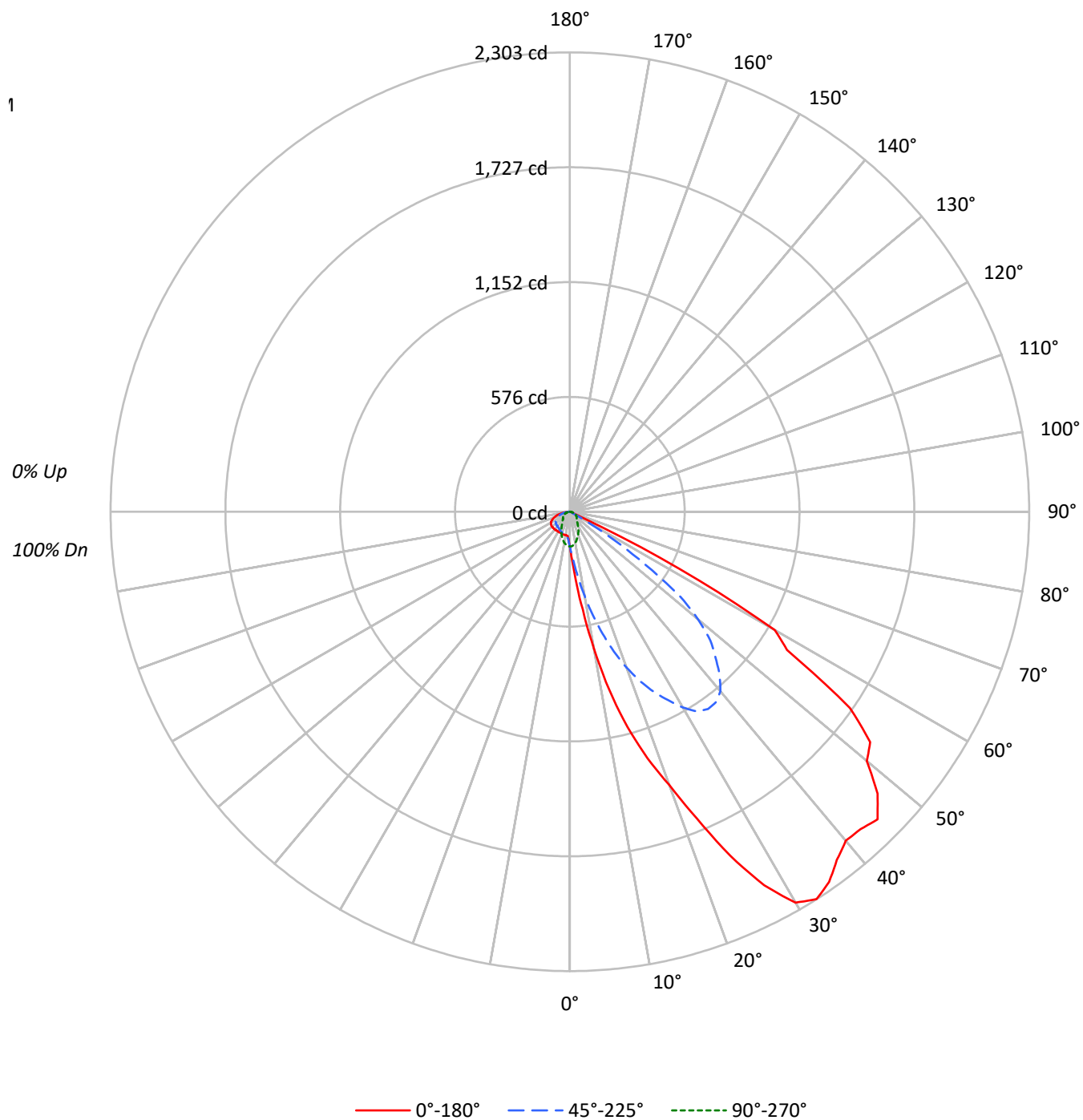
Lumens per Lamp: N/A
Luminaire Lumens: 1753.0 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
Input Voltage (V): NR
Input Current (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
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	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	29915	29915	29915	29915	29915
5°	58952	46004	29476	22319	21212
10°	121786	74971	27596	20338	20618
15°	199159	112506	24712	20451	21021
20°	267234	152449	22195	20435	21315
25°	361545	189248	19383	20295	22100
30°	449993	225315	16168	20284	23128
35°	476415	253955	13729	20772	24115
40°	483994	264029	12545	21493	26147
45°	531325	251500	12032	22895	28326
50°	520884	225437	11950	24328	31160
55°	514828	138270	11950	26303	34440
60°	408374	32929	12641	28003	37338
65°	25959	5827	12348	28567	40262
70°	5640	6395	12035	29709	42550
75°	5323	6388	10580	28613	43452
80°	4761	6347	11108	28464	41060
85°	3162	6323	12647	25096	40904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 560806 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.7	1.2
10°-20°	109.3	6.2
20°-30°	253.5	14.5
30°-40°	394.0	22.5
40°-50°	449.0	25.6
50°-60°	378.2	21.6
60°-70°	109.7	6.3
70°-80°	28.1	1.6
80°-90°	9.5	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°	384.5	21.9
0°-40°	778.5	44.4
0°-60°	1605.7	91.6
0°-90°	1753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1753.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	174	174	174	174	174	
5°	341	266	170	129	123	44
15°	1117	631	139	115	118	323
25°	1903	996	102	107	116	884
35°	2266	1208	65	99	115	1408
45°	2182	1033	49	94	116	1640
55°	1715	460	40	88	115	1443
65°	64	14	30	70	99	315
75°	8	10	16	43	65	8
85°	2	3	6	13	21	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	173.7	173.7	173.7	173.7	173.7	173.7	173.7	173.7	173.7	173.7	173.7
2.5°	234.2	232.7	232.7	231.1	229.5	227.9	223.1	221.5	211.9	192.8	173.7
5°	341.0	339.4	334.6	333.0	325.1	313.9	302.8	291.6	266.1	211.9	170.5
7.5°	494.0	497.2	494.0	476.5	465.3	447.8	414.3	390.4	339.4	231.1	164.1
10°	696.4	696.4	691.6	664.5	640.6	607.1	564.1	522.7	428.7	248.6	157.8
12.5°	916.3	921.0	897.1	874.8	831.8	790.4	731.4	669.3	530.6	262.9	149.8
15°	1117.0	1113.9	1090.0	1061.3	1016.7	959.3	897.1	817.5	631.0	272.5	138.6
17.5°	1295.5	1289.1	1268.4	1236.6	1182.4	1118.6	1039.0	952.9	734.6	280.5	130.7
20°	1458.1	1435.7	1411.8	1378.4	1325.8	1258.9	1176.0	1078.8	831.8	280.5	121.1
22.5°	1663.6	1641.3	1607.8	1556.8	1486.7	1403.9	1306.7	1196.7	917.9	274.1	111.5
25°	1902.6	1885.1	1827.7	1762.4	1671.6	1572.8	1459.6	1311.5	995.9	264.5	102.0
27.5°	2111.4	2092.3	2034.9	1939.3	1829.3	1711.4	1591.9	1440.5	1064.5	247.0	90.8
30°	2262.8	2238.9	2194.2	2103.4	1969.6	1826.2	1684.3	1539.3	1133.0	226.3	81.3
32.5°	2302.6	2299.4	2266.0	2199.0	2079.5	1921.8	1752.9	1595.1	1187.2	199.2	73.3
35°	2266.0	2270.7	2264.4	2230.9	2143.3	1988.7	1797.5	1625.4	1207.9	172.1	65.3
37.5°	2199.0	2205.4	2216.6	2221.3	2165.6	2028.5	1823.0	1638.1	1203.1	145.0	60.6
40°	2152.8	2149.6	2149.6	2181.5	2170.3	2046.1	1826.2	1628.6	1174.4	116.3	55.8
42.5°	2157.6	2122.5	2098.6	2149.6	2165.6	2038.1	1805.4	1603.1	1112.3	89.2	51.0
45°	2181.5	2106.6	2065.2	2130.5	2156.0	2011.0	1767.2	1564.8	1032.6	62.1	49.4
47.5°	2092.3	2042.9	2036.5	2128.9	2138.5	1964.8	1708.2	1504.3	956.1	43.0	46.2
50°	1944.1	1936.1	1969.6	2065.2	2066.8	1888.3	1641.3	1394.3	841.4	30.3	44.6
52.5°	1897.9	1902.6	1932.9	1982.3	1936.1	1759.2	1520.2	1301.9	696.4	23.9	43.0
55°	1714.6	1722.6	1751.3	1781.5	1748.1	1601.5	1373.6	1190.3	460.5	22.3	39.8
57.5°	1290.7	1311.5	1364.0	1391.1	1394.3	1305.1	1244.5	1026.2	259.7	22.3	38.2
60°	1185.6	1158.5	1134.6	1078.8	1027.8	1016.7	1023.0	769.7	95.6	20.7	36.7
62.5°	619.9	607.1	643.8	667.7	674.1	709.1	662.9	406.3	20.7	20.7	33.5
65°	63.7	63.7	78.1	103.6	172.1	229.5	218.3	117.9	14.3	19.1	30.3
67.5°	19.1	19.1	19.1	22.3	28.7	28.7	23.9	17.5	14.3	17.5	27.1
70°	11.2	11.2	11.2	11.2	11.2	11.2	12.7	11.2	12.7	15.9	23.9
72.5°	9.6	9.6	9.6	9.6	11.2	11.2	11.2	11.2	11.2	14.3	20.7
75°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	9.6	9.6	11.2	15.9
77.5°	6.4	6.4	6.4	6.4	6.4	6.4	8.0	8.0	8.0	9.6	12.7
80°	4.8	4.8	4.8	4.8	4.8	6.4	6.4	6.4	6.4	8.0	11.2
82.5°	3.2	3.2	3.2	3.2	4.8	4.8	4.8	4.8	4.8	6.4	8.0
85°	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.8	6.4
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	4.8
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):

	112.5°	135°	157.5°	180°
0°	173.7	173.7	173.7	173.7
2.5°	157.8	146.6	140.2	137.0
5°	143.4	129.1	124.3	122.7
7.5°	130.7	121.1	119.5	119.5
10°	122.7	116.3	117.9	117.9
12.5°	117.9	116.3	117.9	119.5
15°	113.1	114.7	117.9	117.9
17.5°	110.0	113.1	116.3	117.9
20°	105.2	111.5	116.3	116.3
22.5°	102.0	110.0	114.7	116.3
25°	98.8	106.8	113.1	116.3
27.5°	94.0	105.2	113.1	114.7
30°	89.2	102.0	111.5	116.3
32.5°	84.5	100.4	111.5	114.7
35°	81.3	98.8	111.5	114.7
37.5°	78.1	97.2	111.5	116.3
40°	76.5	95.6	110.0	116.3
42.5°	73.3	95.6	110.0	116.3
45°	71.7	94.0	110.0	116.3
47.5°	70.1	92.4	110.0	116.3
50°	66.9	90.8	108.4	116.3
52.5°	65.3	89.2	108.4	116.3
55°	62.1	87.6	106.8	114.7
57.5°	60.6	84.5	105.2	111.5
60°	57.4	81.3	102.0	108.4
62.5°	52.6	76.5	97.2	105.2
65°	47.8	70.1	92.4	98.8
67.5°	43.0	65.3	86.0	92.4
70°	38.2	59.0	78.1	84.5
72.5°	33.5	51.0	70.1	74.9
75°	28.7	43.0	59.0	65.3
77.5°	22.3	35.1	49.4	54.2
80°	17.5	28.7	38.2	41.4
82.5°	14.3	20.7	28.7	30.3
85°	9.6	12.7	17.5	20.7
87.5°	4.8	6.4	8.0	9.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)