

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: P1319415

Luminaire Tested: LDSQA3D17R459835DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319415  
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: LDSQA3D17R459835DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

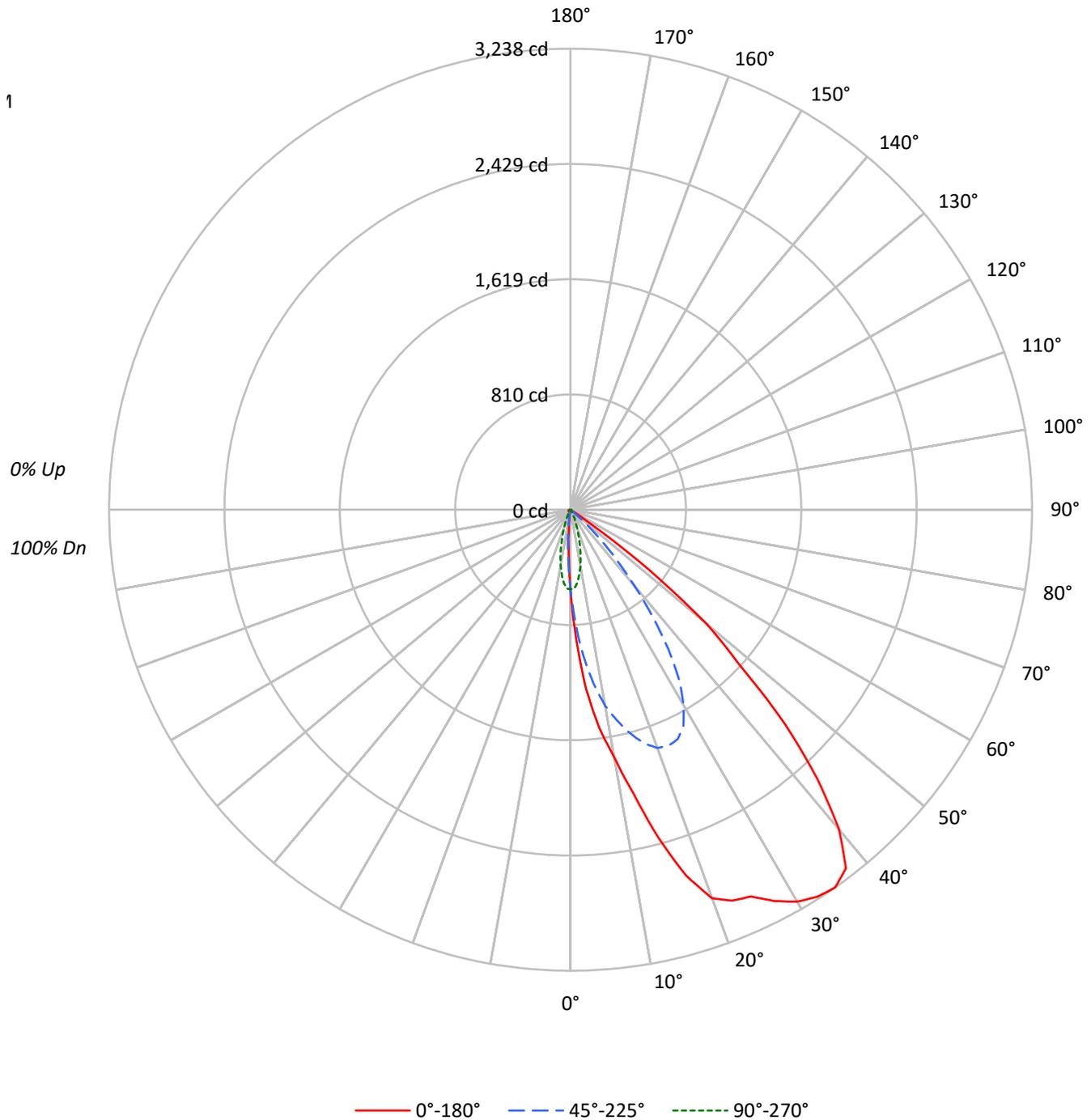
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1467.0 lumens  
Efficiency: N/A  
Efficacy: 71.9 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): 20.4  
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			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°	96135	96135	96135	96135	96135
5°	219091	177738	89932	36063	24601
10°	308750	244167	69515	7940	3655
15°	425455	290501	44414	2621	2193
20°	532012	326267	23166	1796	1796
25°	569320	337810	10718	1406	1634
30°	631915	315460	4872	1472	1710
35°	680710	251495	1556	1556	2060
40°	658657	155846	832	1933	2473
45°	517248	73506	901	2387	2996
50°	332341	8547	1313	2947	3939
55°	50474	751	1471	3693	4774
60°	861	861	1688	4237	5063
65°	1019	1019	1997	4483	5990
70°	1259	1259	2467	4935	6798
75°	799	1664	3261	5723	7320
80°	1190	2479	3670	6050	8529
85°	0	2371	4940	7311	7311

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 517248 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.1	4.2
10°-20°	220.9	15.1
20°-30°	388.0	26.5
30°-40°	440.6	30.0
40°-50°	285.3	19.4
50°-60°	56.0	3.8
60°-70°	6.8	0.5
70°-80°	5.6	0.4
80°-90°	2.6	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°	670.0	45.7
0°-40°	1110.6	75.7
0°-60°	1452.0	99.0
0°-90°	1467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1467.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	558	558	558	558	558	
5°	1267	1028	520	209	142	135
15°	2386	1629	249	15	12	687
25°	2996	1778	56	7	9	1404
35°	3238	1196	7	7	10	1990
45°	2124	302	4	10	12	1601
55°	168	2	5	12	16	321
65°	2	2	5	11	15	2
75°	1	2	5	9	11	1
85°	0	1	2	4	4	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°	558.2	558.2	558.2	558.2	558.2	558.2	558.2	558.2	558.2	558.2	558.2
2.5°	906.7	904.2	907.9	883.3	882.1	863.7	858.8	837.9	809.7	796.2	764.3
5°	1267.3	1255.1	1255.1	1225.6	1215.8	1195.0	1159.4	1115.2	1078.4	1028.1	974.1
7.5°	1545.8	1543.4	1543.4	1517.6	1493.1	1463.6	1415.8	1365.5	1306.6	1229.3	1150.8
10°	1765.5	1769.1	1758.1	1734.8	1699.2	1667.3	1610.9	1549.5	1477.1	1396.2	1291.9
12.5°	2042.7	2015.7	2007.1	1954.4	1909.0	1847.7	1780.2	1710.2	1620.7	1518.9	1401.1
15°	2386.2	2351.9	2317.5	2247.6	2171.5	2077.1	1971.6	1868.5	1753.2	1629.3	1482.1
17.5°	2693.0	2693.0	2647.6	2537.2	2439.0	2299.1	2156.8	2019.4	1883.2	1720.1	1536.0
20°	2902.8	2891.7	2857.4	2776.4	2664.7	2506.5	2321.2	2128.6	1964.2	1780.2	1566.7
22.5°	2971.5	2969.0	2970.2	2922.4	2832.8	2668.4	2441.5	2214.5	2008.4	1794.9	1552.0
25°	2996.0	3000.9	3013.2	2994.8	2927.3	2762.9	2515.1	2255.0	2021.9	1777.7	1495.5
27.5°	3097.8	3088.0	3101.5	3089.2	3013.2	2816.9	2529.8	2245.2	1992.4	1715.2	1394.9
30°	3177.6	3175.1	3198.4	3187.4	3088.0	2851.2	2516.3	2208.4	1920.0	1586.3	1236.7
32.5°	3223.0	3224.2	3230.3	3184.9	3037.7	2776.4	2450.0	2133.5	1783.9	1418.3	1030.6
35°	3237.7	3230.3	3196.0	3084.3	2883.1	2603.4	2286.9	1955.6	1598.6	1196.2	814.6
37.5°	3173.9	3135.9	3047.5	2880.7	2647.6	2386.2	2078.3	1731.1	1344.6	944.7	607.3
40°	2929.7	2879.4	2767.8	2597.3	2380.1	2127.4	1812.1	1448.9	1042.8	693.2	426.9
42.5°	2564.1	2538.4	2421.8	2273.4	2089.3	1834.2	1509.0	1141.0	771.7	478.5	272.4
45°	2123.7	2090.6	2017.0	1885.7	1740.9	1473.5	1170.4	817.1	526.3	301.8	135.0
47.5°	1592.5	1594.9	1544.6	1445.2	1302.9	1079.6	801.1	548.4	330.0	155.8	30.7
50°	1240.4	1223.2	1152.0	1050.2	884.6	718.9	517.7	346.0	174.2	31.9	2.5
52.5°	687.0	698.1	660.1	626.9	541.0	429.4	305.5	175.4	36.8	3.7	2.5
55°	168.1	177.9	170.5	174.2	180.3	160.7	123.9	34.4	3.7	2.5	2.5
57.5°	3.7	3.7	3.7	3.7	6.1	8.6	8.6	2.5	2.5	2.5	2.5
60°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
62.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
65°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
67.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
70°	2.5	2.5	2.5	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5
82.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	558.2	558.2	558.2	558.2	558.2	558.2	558.2	558.2
2.5°	748.4	725.1	682.1	554.5	445.4	359.5	307.9	303.0
5°	926.3	863.7	772.9	520.2	328.8	208.6	150.9	142.3
7.5°	1067.4	979.0	839.2	463.8	224.5	106.7	58.9	49.1
10°	1183.9	1058.8	873.5	397.5	141.1	45.4	24.5	20.9
12.5°	1263.7	1112.8	879.7	323.9	81.0	22.1	15.9	14.7
15°	1315.2	1129.9	850.2	249.1	45.4	14.7	13.5	12.3
17.5°	1336.1	1115.2	793.8	180.3	24.5	11.0	11.0	11.0
20°	1326.2	1067.4	710.4	126.4	15.9	9.8	9.8	9.8
22.5°	1279.6	985.2	606.1	84.7	11.0	8.6	8.6	8.6
25°	1187.6	873.5	495.7	56.4	7.4	7.4	8.6	8.6
27.5°	1050.2	736.1	379.1	38.0	6.1	7.4	8.6	8.6
30°	877.2	582.8	272.4	24.5	6.1	7.4	7.4	8.6
32.5°	696.9	424.5	179.1	14.7	4.9	7.4	8.6	9.8
35°	505.5	289.5	114.1	7.4	6.1	7.4	8.6	9.8
37.5°	354.6	188.9	66.3	4.9	6.1	7.4	9.8	9.8
40°	230.7	105.5	24.5	3.7	6.1	8.6	9.8	11.0
42.5°	120.2	36.8	4.9	3.7	6.1	8.6	11.0	12.3
45°	30.7	4.9	1.2	3.7	7.4	9.8	12.3	12.3
47.5°	3.7	1.2	1.2	4.9	7.4	11.0	12.3	13.5
50°	1.2	2.5	2.5	4.9	7.4	11.0	13.5	14.7
52.5°	2.5	2.5	2.5	4.9	8.6	11.0	14.7	15.9
55°	2.5	2.5	2.5	4.9	8.6	12.3	14.7	15.9
57.5°	2.5	2.5	2.5	4.9	8.6	12.3	14.7	14.7
60°	2.5	2.5	2.5	4.9	8.6	12.3	14.7	14.7
62.5°	2.5	2.5	3.7	4.9	8.6	11.0	14.7	14.7
65°	2.5	3.7	3.7	4.9	8.6	11.0	13.5	14.7
67.5°	2.5	2.5	3.7	4.9	8.6	11.0	13.5	14.7
70°	2.5	2.5	3.7	4.9	7.4	9.8	12.3	13.5
72.5°	2.5	2.5	3.7	4.9	7.4	9.8	11.0	12.3
75°	2.5	2.5	3.7	4.9	6.1	8.6	11.0	11.0
77.5°	2.5	2.5	3.7	3.7	6.1	7.4	9.8	9.8
80°	2.5	2.5	3.7	3.7	4.9	6.1	7.4	8.6
82.5°	2.5	2.5	2.5	3.7	3.7	4.9	6.1	6.1
85°	2.5	2.5	2.5	2.5	2.5	3.7	3.7	3.7
87.5°	1.2	2.5	2.5	2.5	2.5	2.5	2.5	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)