

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: P1311840

Luminaire Tested: LDSQA3D20R559040D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R559040D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

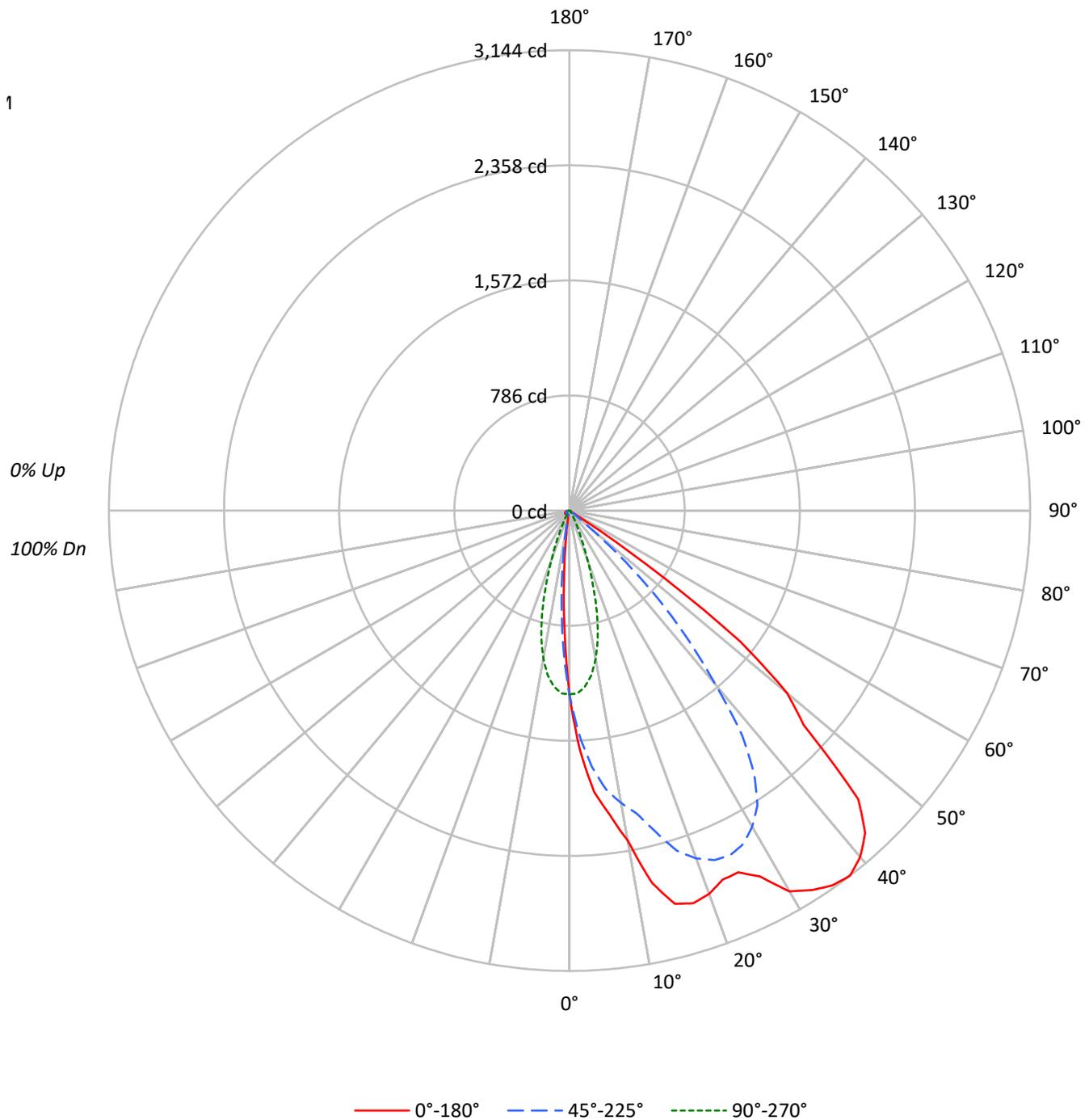
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2093.0 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 1.79 / 0.55 / 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	103	110	107	104	102	103	100	98	99	97	95	95	94	93	95	94	93	91	
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	88	86	83	81	
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	81	78	75	73	
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	75	71	67	65	
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	69	64	61	59	
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	63	59	55	53	
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	59	54	50	48	
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	54	49	45	44	
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	50	45	41	40	
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	47	42	38	37	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	216053	216053	216053	216053	216053
5°	333175	303302	208701	107186	70397
10°	400299	354516	179636	27019	10808
15°	495633	404879	128375	7453	5830
20°	510477	463156	66309	5003	5003
25°	517880	493347	26604	4485	5188
30°	596915	495692	11574	4693	5429
35°	657079	462140	4962	4962	6118
40°	694044	347843	2855	5733	6542
45°	678825	212554	2655	6211	7964
50°	519277	45307	2920	7315	9244
55°	190516	1651	3273	8197	10359
60°	1894	1894	3754	9403	11883
65°	2241	2241	4442	9617	12592
70°	1813	2769	4582	10977	14653
75°	1198	2396	4858	12111	16968
80°	1785	3570	5455	12596	18051
85°	0	3557	7114	14425	17982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 678825 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	5.3
10°-20°	316.3	15.1
20°-30°	485.2	23.2
30°-40°	565.3	27.0
40°-50°	451.8	21.6
50°-60°	133.7	6.4
60°-70°	14.4	0.7
70°-80°	11.2	0.5
80°-90°	4.8	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°	911.9	43.6
0°-40°	1477.2	70.6
0°-60°	2062.7	98.6
0°-90°	2093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2093.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1254	1254	1254	1254	1254	
5°	1927	1754	1207	620	407	192
15°	2780	2271	720	42	33	767
25°	2725	2596	140	24	27	1295
35°	3125	2198	24	24	29	1946
45°	2787	873	11	26	33	2009
55°	634	6	11	27	34	672
65°	6	6	11	24	31	5
75°	2	4	7	18	26	3
85°	0	2	4	7	9	1
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°	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5
2.5°	1636.3	1636.3	1630.8	1632.6	1629.0	1609.0	1605.4	1579.9	1558.1	1534.5	1514.5
5°	1927.2	1930.8	1925.3	1914.4	1899.9	1885.3	1854.4	1830.8	1799.9	1754.4	1712.6
7.5°	2092.6	2089.0	2079.9	2076.2	2067.2	2050.8	2029.0	2003.5	1967.2	1921.7	1872.6
10°	2289.0	2258.0	2249.0	2234.4	2205.3	2172.6	2134.4	2099.9	2069.0	2027.2	1974.4
12.5°	2605.3	2599.8	2563.5	2536.2	2496.2	2423.5	2358.0	2281.7	2190.8	2118.1	2049.0
15°	2779.8	2783.5	2767.1	2745.3	2719.8	2659.8	2594.4	2505.3	2398.0	2270.8	2158.1
17.5°	2810.7	2816.2	2807.1	2798.0	2790.7	2756.2	2716.2	2652.6	2554.4	2436.2	2269.0
20°	2785.3	2796.2	2798.0	2808.9	2823.5	2808.9	2776.2	2732.6	2650.8	2527.1	2367.1
22.5°	2728.9	2748.9	2763.5	2801.7	2839.8	2839.8	2819.8	2785.3	2705.3	2583.5	2419.9
25°	2725.3	2728.9	2734.4	2796.2	2856.2	2868.9	2850.7	2814.4	2727.1	2596.2	2418.0
27.5°	2816.2	2792.6	2756.2	2818.0	2888.9	2899.8	2874.4	2825.3	2721.7	2567.1	2356.2
30°	3001.6	2948.9	2872.6	2918.0	2967.1	2954.4	2903.5	2825.3	2685.3	2492.6	2239.9
32.5°	3072.5	3043.5	3016.2	3065.3	3074.4	3021.6	2930.7	2814.4	2627.1	2387.1	2049.0
35°	3125.3	3127.1	3116.2	3125.3	3081.6	3007.1	2907.1	2754.4	2518.0	2198.1	1796.3
37.5°	3143.5	3147.1	3123.5	3090.7	3025.3	2939.8	2819.8	2645.3	2336.2	1938.1	1414.5
40°	3087.1	3076.2	3038.0	2992.6	2921.6	2834.4	2703.5	2443.5	2065.3	1547.2	1103.6
42.5°	2987.1	2968.9	2923.5	2868.9	2794.4	2683.5	2474.4	2159.9	1678.1	1207.2	772.7
45°	2787.1	2774.4	2718.0	2678.0	2588.9	2445.3	2176.2	1779.9	1298.1	872.7	447.2
47.5°	2165.3	2167.1	2210.8	2230.8	2199.9	2085.3	1769.0	1352.6	947.2	520.0	150.9
50°	1938.1	1929.0	1885.3	1825.3	1725.4	1554.5	1298.1	956.3	560.0	169.1	21.8
52.5°	1470.8	1470.8	1449.0	1418.1	1312.7	1147.2	878.1	529.1	196.4	29.1	5.5
55°	634.5	601.8	620.0	654.5	627.2	545.4	410.9	158.2	34.5	5.5	5.5
57.5°	9.1	21.8	32.7	52.7	70.9	85.4	45.5	16.4	5.5	5.5	5.5
60°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
62.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
65°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
67.5°	3.6	3.6	3.6	5.5	3.6	5.5	5.5	5.5	5.5	5.5	5.5
70°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	5.5	5.5
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
75°	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6
85°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5	1254.5
2.5°	1485.4	1454.5	1403.6	1249.0	1089.0	941.8	836.3	796.3
5°	1665.4	1609.0	1523.5	1207.2	889.0	620.0	467.2	407.2
7.5°	1807.2	1734.4	1610.8	1134.5	652.7	330.9	198.2	156.4
10°	1901.7	1821.7	1659.9	1027.2	432.7	154.5	74.5	61.8
12.5°	1970.8	1870.8	1678.1	889.0	254.5	70.9	40.0	36.4
15°	2021.7	1892.6	1656.3	720.0	140.0	41.8	32.7	32.7
17.5°	2092.6	1903.5	1603.5	530.9	80.0	30.9	30.9	30.9
20°	2147.1	1903.5	1503.5	361.8	49.1	27.3	27.3	27.3
22.5°	2174.4	1874.4	1381.7	229.1	34.5	25.5	27.3	27.3
25°	2147.1	1803.5	1225.4	140.0	27.3	23.6	25.5	27.3
27.5°	2047.2	1661.7	1016.3	89.1	21.8	23.6	25.5	27.3
30°	1879.9	1456.3	780.0	58.2	20.0	23.6	25.5	27.3
32.5°	1643.5	1150.8	505.4	38.2	18.2	23.6	25.5	27.3
35°	1283.6	814.5	305.4	23.6	18.2	23.6	27.3	29.1
37.5°	961.8	543.6	165.4	14.5	18.2	23.6	27.3	29.1
40°	667.2	316.3	70.9	12.7	18.2	25.5	29.1	29.1
42.5°	387.3	125.4	18.2	10.9	18.2	25.5	29.1	30.9
45°	141.8	25.5	5.5	10.9	20.0	25.5	29.1	32.7
47.5°	20.0	5.5	5.5	10.9	20.0	25.5	30.9	32.7
50°	5.5	5.5	5.5	10.9	20.0	27.3	32.7	34.5
52.5°	5.5	5.5	5.5	10.9	20.0	27.3	32.7	34.5
55°	5.5	5.5	5.5	10.9	20.0	27.3	32.7	34.5
57.5°	5.5	5.5	5.5	10.9	20.0	27.3	32.7	34.5
60°	5.5	5.5	5.5	10.9	18.2	27.3	32.7	34.5
62.5°	5.5	5.5	5.5	10.9	18.2	25.5	30.9	32.7
65°	5.5	5.5	5.5	10.9	16.4	23.6	30.9	30.9
67.5°	5.5	5.5	5.5	9.1	16.4	23.6	29.1	30.9
70°	5.5	5.5	5.5	9.1	14.5	21.8	27.3	29.1
72.5°	5.5	5.5	5.5	7.3	12.7	20.0	25.5	27.3
75°	3.6	5.5	5.5	7.3	12.7	18.2	23.6	25.5
77.5°	3.6	5.5	5.5	5.5	10.9	14.5	20.0	21.8
80°	3.6	3.6	5.5	5.5	9.1	12.7	16.4	18.2
82.5°	3.6	3.6	3.6	5.5	7.3	9.1	12.7	12.7
85°	3.6	3.6	3.6	3.6	5.5	7.3	9.1	9.1
87.5°	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)