

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: P1312282

Luminaire Tested: LDSQA3D05R459050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312282
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: LDSQA3D05R459050DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

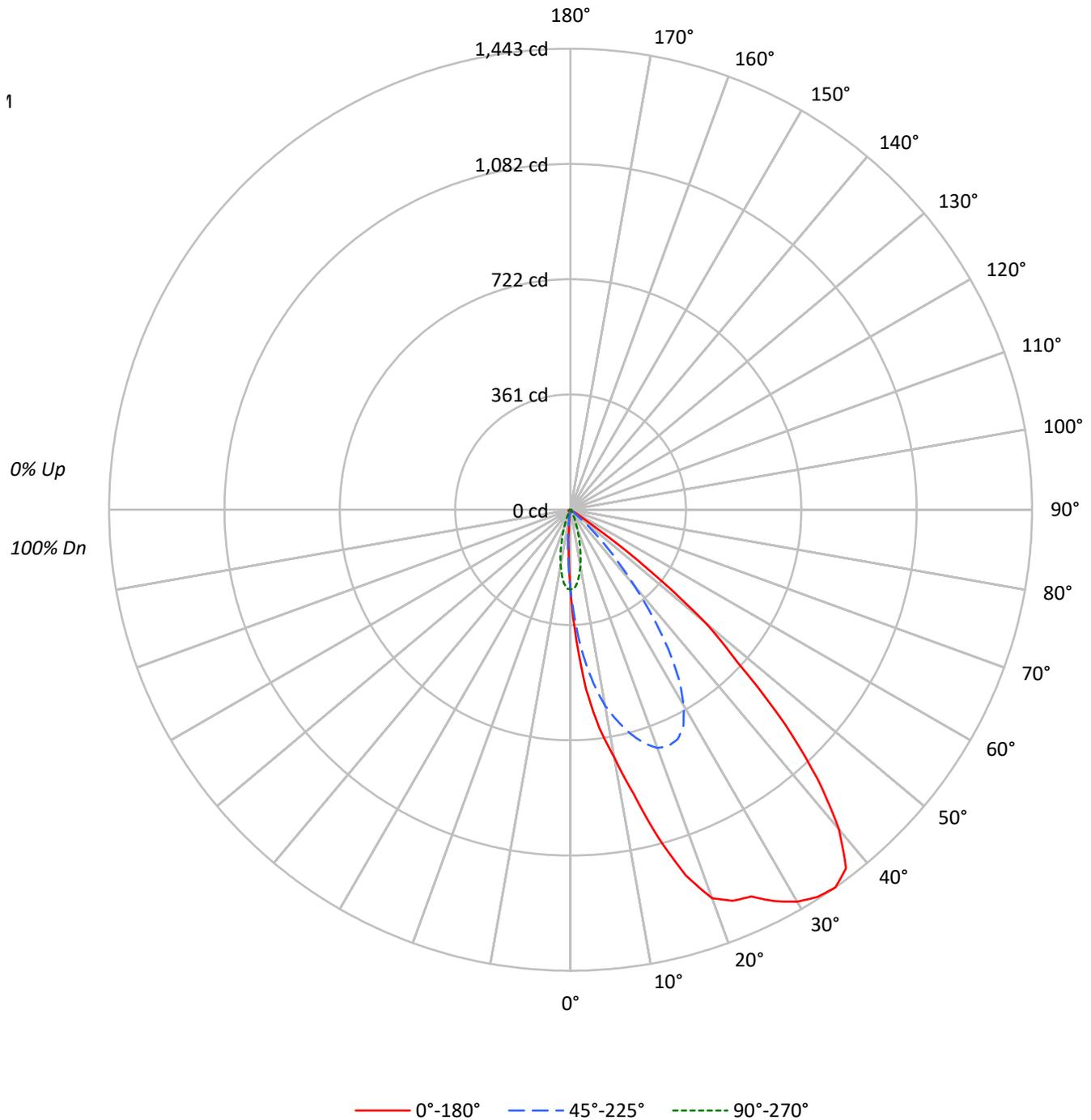
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 654.0 lumens
Efficiency: N/A
Efficacy: 90.8 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): 7.2
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				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°	42866	42866	42866	42866	42866
5°	97677	79231	40091	16078	10961
10°	137648	108845	30989	3533	1626
15°	189673	129498	19791	1177	981
20°	237177	145447	10318	806	806
25°	253800	150596	4789	627	722
30°	281713	140638	2168	656	756
35°	303468	112124	694	694	925
40°	293638	69470	360	854	1102
45°	230602	32759	390	1072	1340
50°	148166	3805	589	1313	1768
55°	22490	330	661	1651	2132
60°	379	379	758	1894	2273
65°	448	448	897	1997	2690
70°	554	554	1108	2216	3021
75°	333	732	1464	2529	3261
80°	496	1091	1587	2678	3769
85°	0	988	2174	3162	3162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 230602 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.2	4.2
10°-20°	98.5	15.1
20°-30°	173.0	26.5
30°-40°	196.4	30.0
40°-50°	127.2	19.4
50°-60°	25.0	3.8
60°-70°	3.0	0.5
70°-80°	2.5	0.4
80°-90°	1.1	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°	298.7	45.7
0°-40°	495.1	75.7
0°-60°	647.3	99.0
0°-90°	654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	654.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	249	249	249	249	249	
5°	565	458	232	93	63	60
15°	1064	726	111	7	6	306
25°	1336	792	25	3	4	626
35°	1443	533	3	3	4	887
45°	947	134	2	4	6	714
55°	75	1	2	6	7	143
65°	1	1	2	5	7	1
75°	0	1	2	4	5	1
85°	0	0	1	2	2	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°	248.9	248.9	248.9	248.9	248.9	248.9	248.9	248.9	248.9	248.9	248.9
2.5°	404.2	403.1	404.7	393.8	393.3	385.0	382.9	373.6	361.0	355.0	340.7
5°	565.0	559.5	559.5	546.4	542.0	532.7	516.9	497.2	480.8	458.3	434.3
7.5°	689.2	688.1	688.1	676.6	665.6	652.5	631.2	608.8	582.5	548.0	513.0
10°	787.1	788.7	783.8	773.4	757.5	743.3	718.1	690.8	658.5	622.4	575.9
12.5°	910.7	898.6	894.8	871.3	851.0	823.7	793.6	762.4	722.5	677.1	624.6
15°	1063.8	1048.5	1033.2	1002.0	968.1	926.0	878.9	833.0	781.6	726.3	660.7
17.5°	1200.5	1200.5	1180.3	1131.1	1087.3	1025.0	961.5	900.3	839.6	766.8	684.8
20°	1294.1	1289.1	1273.8	1237.7	1188.0	1117.4	1034.8	948.9	875.7	793.6	698.4
22.5°	1324.7	1323.6	1324.2	1302.8	1262.9	1189.6	1088.4	987.2	895.3	800.2	691.9
25°	1335.6	1337.8	1343.3	1335.1	1305.0	1231.7	1121.2	1005.3	901.4	792.5	666.7
27.5°	1381.0	1376.7	1382.7	1377.2	1343.3	1255.8	1127.8	1000.9	888.2	764.6	621.9
30°	1416.6	1415.5	1425.9	1421.0	1376.7	1271.1	1121.8	984.5	856.0	707.2	551.3
32.5°	1436.8	1437.4	1440.1	1419.9	1354.2	1237.7	1092.2	951.1	795.3	632.3	459.4
35°	1443.4	1440.1	1424.8	1375.0	1285.3	1160.6	1019.5	871.8	712.7	533.3	363.2
37.5°	1414.9	1398.0	1358.6	1284.2	1180.3	1063.8	926.5	771.7	599.5	421.1	270.7
40°	1306.1	1283.7	1233.9	1157.9	1061.1	948.4	807.8	645.9	464.9	309.0	190.3
42.5°	1143.1	1131.6	1079.7	1013.5	931.4	817.7	672.7	508.7	344.0	213.3	121.4
45°	946.8	932.0	899.2	840.7	776.1	656.9	521.8	364.3	234.6	134.5	60.2
47.5°	709.9	711.0	688.6	644.3	580.9	481.3	357.2	244.5	147.1	69.5	13.7
50°	553.0	545.3	513.6	468.2	394.3	320.5	230.8	154.2	77.7	14.2	1.1
52.5°	306.3	311.2	294.3	279.5	241.2	191.4	136.2	78.2	16.4	1.6	1.1
55°	74.9	79.3	76.0	77.7	80.4	71.6	55.2	15.3	1.6	1.1	1.1
57.5°	1.6	1.6	1.6	1.6	2.7	3.8	3.8	1.1	1.1	1.1	1.1
60°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1
82.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
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°	248.9	248.9	248.9	248.9	248.9	248.9	248.9	248.9
2.5°	333.6	323.2	304.1	247.2	198.5	160.3	137.3	135.1
5°	412.9	385.0	344.6	231.9	146.6	93.0	67.3	63.4
7.5°	475.8	436.5	374.1	206.7	100.1	47.6	26.3	21.9
10°	527.8	472.0	389.4	177.2	62.9	20.2	10.9	9.3
12.5°	563.4	496.1	392.2	144.4	36.1	9.8	7.1	6.6
15°	586.3	503.7	379.0	111.0	20.2	6.6	6.0	5.5
17.5°	595.6	497.2	353.9	80.4	10.9	4.9	4.9	4.9
20°	591.2	475.8	316.7	56.3	7.1	4.4	4.4	4.4
22.5°	570.5	439.2	270.2	37.7	4.9	3.8	3.8	3.8
25°	529.4	389.4	221.0	25.2	3.3	3.3	3.8	3.8
27.5°	468.2	328.2	169.0	17.0	2.7	3.3	3.8	3.8
30°	391.1	259.8	121.4	10.9	2.7	3.3	3.3	3.8
32.5°	310.7	189.2	79.9	6.6	2.2	3.3	3.8	4.4
35°	225.3	129.1	50.9	3.3	2.7	3.3	3.8	4.4
37.5°	158.1	84.2	29.5	2.2	2.7	3.3	4.4	4.4
40°	102.8	47.0	10.9	1.6	2.7	3.8	4.4	4.9
42.5°	53.6	16.4	2.2	1.6	2.7	3.8	4.9	5.5
45°	13.7	2.2	0.5	1.6	3.3	4.4	5.5	5.5
47.5°	1.6	0.5	0.5	2.2	3.3	4.9	5.5	6.0
50°	0.5	1.1	1.1	2.2	3.3	4.9	6.0	6.6
52.5°	1.1	1.1	1.1	2.2	3.8	4.9	6.6	7.1
55°	1.1	1.1	1.1	2.2	3.8	5.5	6.6	7.1
57.5°	1.1	1.1	1.1	2.2	3.8	5.5	6.6	6.6
60°	1.1	1.1	1.1	2.2	3.8	5.5	6.6	6.6
62.5°	1.1	1.1	1.6	2.2	3.8	4.9	6.6	6.6
65°	1.1	1.6	1.6	2.2	3.8	4.9	6.0	6.6
67.5°	1.1	1.1	1.6	2.2	3.8	4.9	6.0	6.6
70°	1.1	1.1	1.6	2.2	3.3	4.4	5.5	6.0
72.5°	1.1	1.1	1.6	2.2	3.3	4.4	4.9	5.5
75°	1.1	1.1	1.6	2.2	2.7	3.8	4.9	4.9
77.5°	1.1	1.1	1.6	1.6	2.7	3.3	4.4	4.4
80°	1.1	1.1	1.6	1.6	2.2	2.7	3.3	3.8
82.5°	1.1	1.1	1.1	1.6	1.6	2.2	2.7	2.7
85°	1.1	1.1	1.1	1.1	1.1	1.6	1.6	1.6
87.5°	0.5	1.1	1.1	1.1	1.1	1.1	1.1	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)