

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: P1316305

Luminaire Tested: LDSQA3D05R459740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

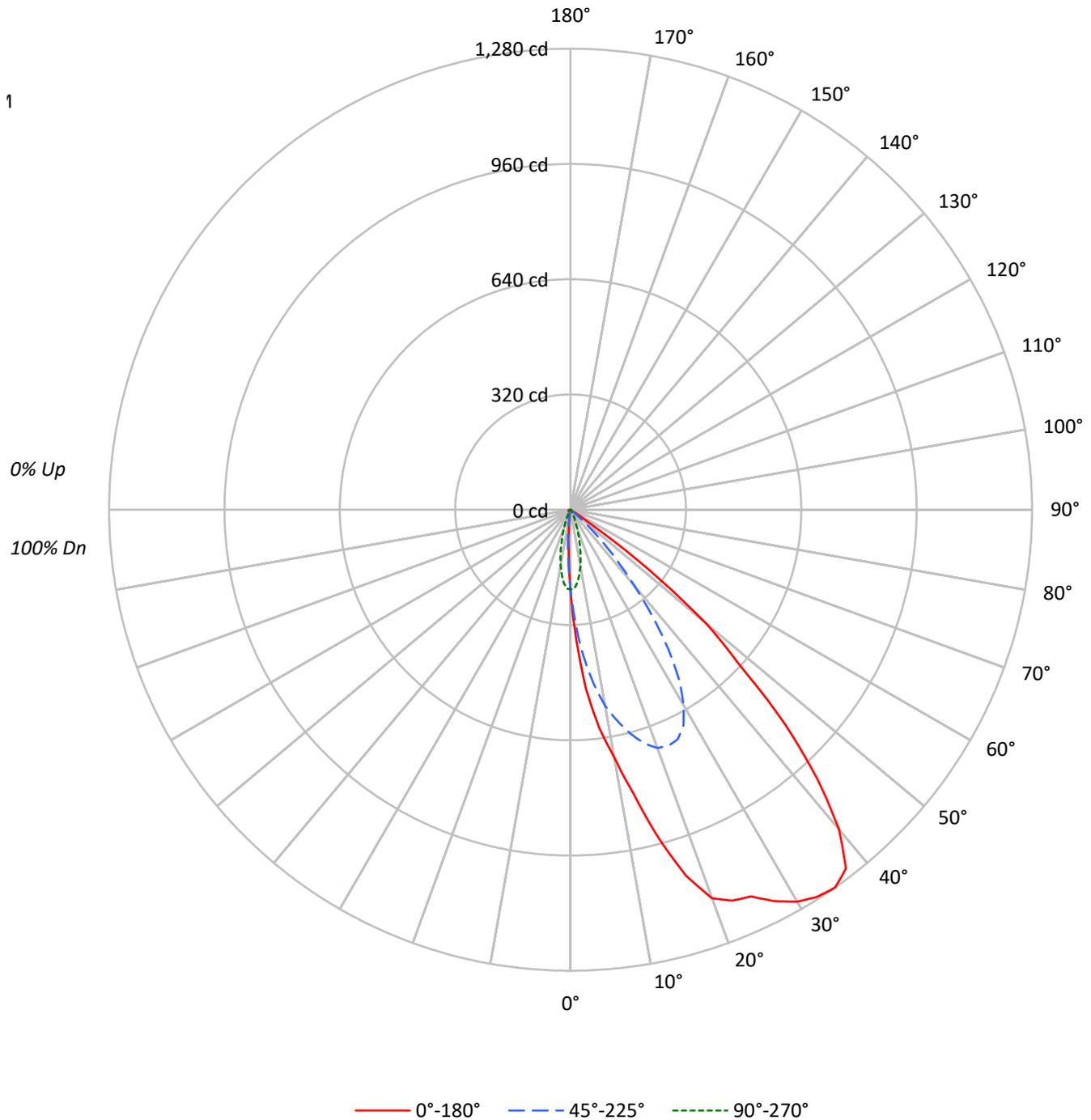
Test Method: LM-79-2019  
Report Number: P1316305  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R459740DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 580.0 lumens  
Efficiency: N/A  
Efficacy: 80.6 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<sub>in</sub>): 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°	38010	38010	38010	38010	38010
5°	86630	70276	35562	14263	9733
10°	122066	96533	27491	3130	1434
15°	168206	114860	17562	1034	874
20°	210327	128989	9164	715	715
25°	225087	133551	4238	551	646
30°	249835	124728	1929	577	676
35°	269135	99425	610	610	820
40°	260410	61623	337	764	989
45°	204493	29057	365	950	1193
50°	131393	3376	509	1179	1554
55°	19967	300	570	1471	1892
60°	344	344	654	1688	1998
65°	408	408	774	1793	2364
70°	504	504	957	1964	2669
75°	333	665	1264	2262	2928
80°	496	992	1488	2380	3372
85°	0	988	1976	2964	2964

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 204493 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.2	4.2
10°-20°	87.3	15.1
20°-30°	153.4	26.4
30°-40°	174.2	30.0
40°-50°	112.8	19.4
50°-60°	22.2	3.8
60°-70°	2.7	0.5
70°-80°	2.2	0.4
80°-90°	1.0	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°	264.9	45.7
0°-40°	439.1	75.7
0°-60°	574.1	99.0
0°-90°	580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	580.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	221	221	221	221	221	
5°	501	406	206	82	56	53
15°	943	644	98	6	5	272
25°	1184	703	22	3	3	555
35°	1280	473	3	3	4	787
45°	840	119	2	4	5	633
55°	66	1	2	5	6	127
65°	1	1	2	4	6	1
75°	0	1	2	3	4	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°	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7
2.5°	358.5	357.5	358.9	349.2	348.8	341.5	339.5	331.3	320.1	314.8	302.2
5°	501.1	496.2	496.2	484.6	480.7	472.4	458.4	440.9	426.4	406.5	385.1
7.5°	611.2	610.2	610.2	600.0	590.3	578.7	559.8	539.9	516.6	486.0	455.0
10°	698.0	699.5	695.1	685.9	671.8	659.2	636.9	612.6	584.0	552.0	510.8
12.5°	807.6	797.0	793.6	772.7	754.8	730.5	703.8	676.2	640.8	600.5	553.9
15°	943.4	929.9	916.3	888.6	858.6	821.2	779.5	738.7	693.1	644.2	586.0
17.5°	1064.7	1064.7	1046.8	1003.1	964.3	909.0	852.7	798.4	744.6	680.1	607.3
20°	1147.6	1143.3	1129.7	1097.7	1053.5	991.0	917.7	841.6	776.6	703.8	619.4
22.5°	1174.8	1173.8	1174.3	1155.4	1120.0	1055.0	965.3	875.5	794.0	709.6	613.6
25°	1184.5	1186.5	1191.3	1184.0	1157.3	1092.4	994.4	891.5	799.4	702.8	591.3
27.5°	1224.8	1220.9	1226.2	1221.4	1191.3	1113.7	1000.2	887.7	787.7	678.1	551.5
30°	1256.3	1255.3	1264.5	1260.2	1220.9	1127.3	994.9	873.1	759.1	627.2	488.9
32.5°	1274.2	1274.7	1277.2	1259.2	1201.0	1097.7	968.7	843.5	705.3	560.7	407.4
35°	1280.1	1277.2	1263.6	1219.4	1139.9	1029.3	904.1	773.2	632.0	472.9	322.1
37.5°	1254.8	1239.8	1204.9	1138.9	1046.8	943.4	821.7	684.4	531.6	373.5	240.1
40°	1158.3	1138.4	1094.3	1026.9	941.0	841.1	716.4	572.9	412.3	274.1	168.8
42.5°	1013.8	1003.6	957.5	898.8	826.1	725.2	596.6	451.1	305.1	189.2	107.7
45°	839.6	826.5	797.4	745.5	688.3	582.6	462.7	323.0	208.1	119.3	53.4
47.5°	629.6	630.6	610.7	571.4	515.1	426.9	316.7	216.8	130.5	61.6	12.1
50°	490.4	483.6	455.5	415.2	349.7	284.2	204.7	136.8	68.9	12.6	1.0
52.5°	271.6	276.0	261.0	247.9	213.9	169.8	120.8	69.4	14.6	1.5	1.0
55°	66.5	70.3	67.4	68.9	71.3	63.5	49.0	13.6	1.5	1.0	1.0
57.5°	1.5	1.5	1.5	1.5	2.4	3.4	3.4	1.0	1.0	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0
82.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.0
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°	220.7	220.7	220.7	220.7	220.7	220.7	220.7	220.7
2.5°	295.9	286.7	269.7	219.2	176.1	142.1	121.7	119.8
5°	366.2	341.5	305.6	205.7	130.0	82.5	59.7	56.3
7.5°	422.0	387.1	331.8	183.4	88.8	42.2	23.3	19.4
10°	468.1	418.6	345.4	157.2	55.8	17.9	9.7	8.2
12.5°	499.6	439.9	347.8	128.1	32.0	8.7	6.3	5.8
15°	520.0	446.7	336.1	98.5	17.9	5.8	5.3	4.9
17.5°	528.2	440.9	313.8	71.3	9.7	4.4	4.4	4.4
20°	524.3	422.0	280.8	50.0	6.3	3.9	3.9	3.9
22.5°	505.9	389.5	239.6	33.5	4.4	3.4	3.4	3.4
25°	469.5	345.4	196.0	22.3	2.9	2.9	3.4	3.4
27.5°	415.2	291.0	149.9	15.0	2.4	2.9	3.4	3.4
30°	346.8	230.4	107.7	9.7	2.4	2.9	2.9	3.4
32.5°	275.5	167.8	70.8	5.8	1.9	2.9	3.4	3.9
35°	199.8	114.5	45.1	2.9	2.4	2.9	3.4	3.9
37.5°	140.2	74.7	26.2	1.9	2.4	2.9	3.9	3.9
40°	91.2	41.7	9.7	1.5	2.4	3.4	3.9	4.4
42.5°	47.5	14.6	1.9	1.5	2.4	3.4	4.4	4.9
45°	12.1	1.9	0.5	1.5	2.9	3.9	4.9	4.9
47.5°	1.5	0.5	0.5	1.9	2.9	4.4	4.9	5.3
50°	0.5	1.0	1.0	1.9	2.9	4.4	5.3	5.8
52.5°	1.0	1.0	1.0	1.9	3.4	4.4	5.8	6.3
55°	1.0	1.0	1.0	1.9	3.4	4.9	5.8	6.3
57.5°	1.0	1.0	1.0	1.9	3.4	4.9	5.8	5.8
60°	1.0	1.0	1.0	1.9	3.4	4.9	5.8	5.8
62.5°	1.0	1.0	1.5	1.9	3.4	4.4	5.8	5.8
65°	1.0	1.5	1.5	1.9	3.4	4.4	5.3	5.8
67.5°	1.0	1.0	1.5	1.9	3.4	4.4	5.3	5.8
70°	1.0	1.0	1.5	1.9	2.9	3.9	4.9	5.3
72.5°	1.0	1.0	1.5	1.9	2.9	3.9	4.4	4.9
75°	1.0	1.0	1.5	1.9	2.4	3.4	4.4	4.4
77.5°	1.0	1.0	1.5	1.5	2.4	2.9	3.9	3.9
80°	1.0	1.0	1.5	1.5	1.9	2.4	2.9	3.4
82.5°	1.0	1.0	1.0	1.5	1.5	1.9	2.4	2.4
85°	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5
87.5°	0.5	1.0	1.0	1.0	1.0	1.0	1.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)