

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: P1313387

Luminaire Tested: LDSQA3D05R459727DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

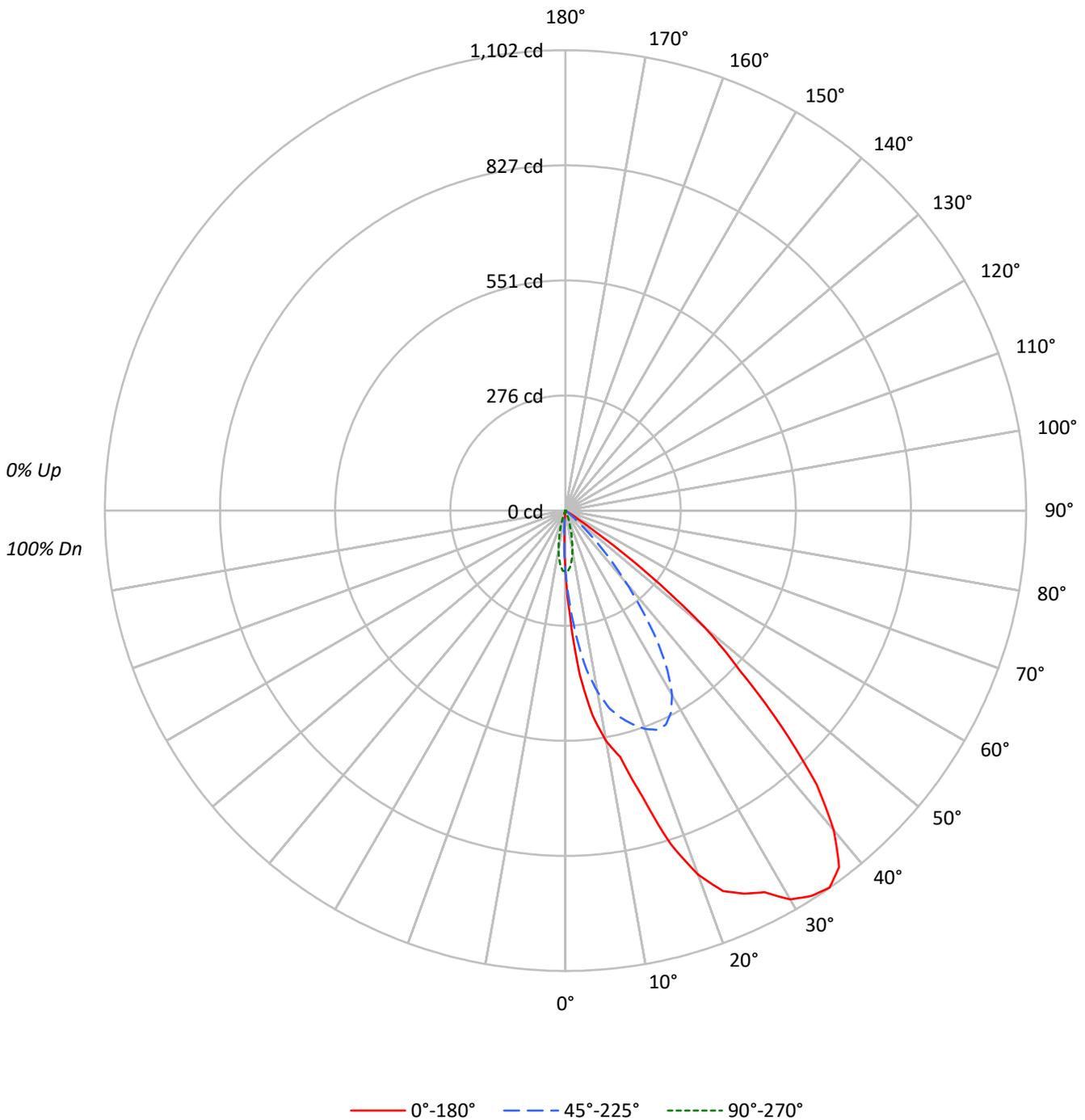
Test Method: LM-79-2019  
Report Number: P1313387  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R459727DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 467.0 lumens  
Efficiency: N/A  
Efficacy: 64.9 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27  
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	98	96	96	94	93	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	82
3	99	91	85	80	97	90	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	63	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	47	42	38	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	24972	24972	24972	24972	24972
5°	68201	52469	23114	4633	1746
10°	97932	76964	16718	437	367
15°	126092	91556	8897	143	0
20°	169933	101865	3372	0	0
25°	192212	107612	874	0	0
30°	213661	101441	80	0	0
35°	231606	80902	0	0	0
40°	224483	50787	0	0	0
45°	177945	24185	0	0	0
50°	116470	3028	0	0	0
55°	20027	0	0	0	0
60°	0	0	138	0	0
65°	0	163	163	0	0
70°	0	201	403	0	0
75°	0	266	532	0	0
80°	0	397	793	397	0
85°	0	790	1581	790	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 177945 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.3	3.7
10°-20°	66.5	14.2
20°-30°	124.5	26.7
30°-40°	145.4	31.1
40°-50°	94.8	20.3
50°-60°	17.6	3.8
60°-70°	0.2	0.0
70°-80°	0.3	0.1
80°-90°	0.4	0.1
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°	208.3	44.6
0°-40°	353.7	75.7
0°-60°	466.1	99.8
0°-90°	467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	467.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	145	145	145	145	145	
5°	394	304	134	27	10	42
15°	707	514	50	1	0	211
25°	1012	566	5	0	0	468
35°	1102	385	0	0	0	676
45°	731	99	0	0	0	556
55°	67	0	0	0	0	116
65°	0	0	0	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	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°	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
2.5°	255.7	257.8	253.6	251.9	246.5	247.7	238.5	234.7	228.9	219.2	214.6
5°	394.5	390.7	387.3	380.2	376.0	364.7	352.1	337.9	320.7	303.5	283.8
7.5°	493.4	490.4	489.2	483.3	474.9	463.2	446.9	428.8	406.6	383.6	353.8
10°	560.0	557.1	552.1	546.2	539.5	529.8	513.9	494.2	469.9	440.1	405.4
12.5°	603.6	603.2	594.8	588.1	579.7	571.3	555.0	539.1	515.2	484.6	445.2
15°	707.2	700.5	689.6	670.7	647.2	625.4	599.0	573.9	547.9	513.5	469.5
17.5°	836.3	828.7	810.3	786.4	748.7	707.2	661.9	622.1	583.1	536.6	484.6
20°	927.2	924.3	908.8	881.1	840.9	786.0	726.4	670.3	615.4	555.8	491.7
22.5°	985.5	983.8	977.5	958.7	917.6	856.0	779.3	703.8	637.6	568.0	489.6
25°	1011.5	1013.6	1014.4	1005.2	972.1	909.2	818.2	729.4	650.2	566.3	473.7
27.5°	1029.9	1029.9	1033.3	1029.1	995.6	929.3	833.3	738.2	646.0	545.8	440.1
30°	1074.4	1073.5	1075.6	1064.3	1017.8	935.6	826.6	723.9	622.1	510.1	391.9
32.5°	1093.7	1094.5	1094.1	1076.0	1022.0	931.4	810.3	696.7	578.1	454.4	328.2
35°	1101.6	1097.8	1082.3	1041.3	972.9	875.7	764.2	650.6	516.4	384.8	259.1
37.5°	1075.2	1064.3	1029.9	973.8	890.3	796.9	687.9	568.0	434.7	301.8	194.9
40°	998.5	984.2	941.1	873.2	796.9	712.6	597.8	471.2	340.0	225.9	136.7
42.5°	889.9	873.6	827.1	767.9	698.4	609.9	495.5	368.9	249.0	155.9	86.8
45°	730.6	721.4	694.6	644.7	576.4	484.6	379.8	269.1	172.3	99.3	44.4
47.5°	565.1	553.3	534.0	499.7	442.7	355.5	265.8	182.8	110.7	49.0	9.2
50°	434.7	420.9	397.4	359.2	299.7	237.3	172.3	114.0	56.2	11.3	0.4
52.5°	250.3	253.2	241.9	217.6	184.4	142.1	99.8	57.4	12.6	0.4	0.0
55°	66.7	72.1	70.4	75.9	66.7	56.2	41.5	10.9	0.8	0.0	0.0
57.5°	0.0	0.0	0.4	0.8	2.5	3.8	1.3	0.4	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
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°	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
2.5°	204.1	195.3	184.4	144.2	108.6	78.0	60.8	56.2
5°	264.9	243.5	215.9	133.7	67.1	26.8	12.2	10.1
7.5°	322.4	290.9	241.0	117.0	34.0	6.7	3.4	2.9
10°	366.8	324.4	259.5	95.6	12.6	2.5	2.1	2.1
12.5°	397.4	345.8	266.2	72.5	4.6	1.3	1.3	0.8
15°	415.0	354.2	259.9	49.9	1.7	0.8	0.0	0.0
17.5°	420.4	350.9	243.1	31.4	0.4	0.0	0.0	0.0
20°	415.8	334.5	216.7	18.4	0.0	0.0	0.0	0.0
22.5°	400.7	308.9	184.9	10.1	0.0	0.0	0.0	0.0
25°	372.7	272.9	147.6	4.6	0.0	0.0	0.0	0.0
27.5°	327.0	226.4	111.1	1.7	0.0	0.0	0.0	0.0
30°	275.0	176.5	78.8	0.4	0.0	0.0	0.0	0.0
32.5°	214.6	129.9	50.7	0.0	0.0	0.0	0.0	0.0
35°	161.4	91.0	30.2	0.0	0.0	0.0	0.0	0.0
37.5°	112.3	57.4	15.9	0.0	0.0	0.0	0.0	0.0
40°	70.0	31.0	5.4	0.0	0.0	0.0	0.0	0.0
42.5°	39.0	10.9	0.4	0.0	0.0	0.0	0.0	0.0
45°	9.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
60°	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0
62.5°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
65°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
67.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
70°	0.4	0.4	0.4	0.8	0.4	0.0	0.0	0.0
72.5°	0.4	0.4	0.8	0.8	0.4	0.0	0.0	0.0
75°	0.4	0.4	0.8	0.8	0.4	0.0	0.0	0.0
77.5°	0.4	0.8	0.8	0.8	0.4	0.4	0.0	0.0
80°	0.4	0.8	0.8	0.8	0.8	0.4	0.0	0.0
82.5°	0.4	0.8	0.8	0.8	0.8	0.4	0.0	0.0
85°	0.4	0.8	0.8	0.8	0.4	0.4	0.0	0.0
87.5°	0.4	0.8	0.8	0.8	0.8	0.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)