

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: P1307840

Luminaire Tested: LDSQA3D05R459027DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307840  
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: LDSQA3D05R459027DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

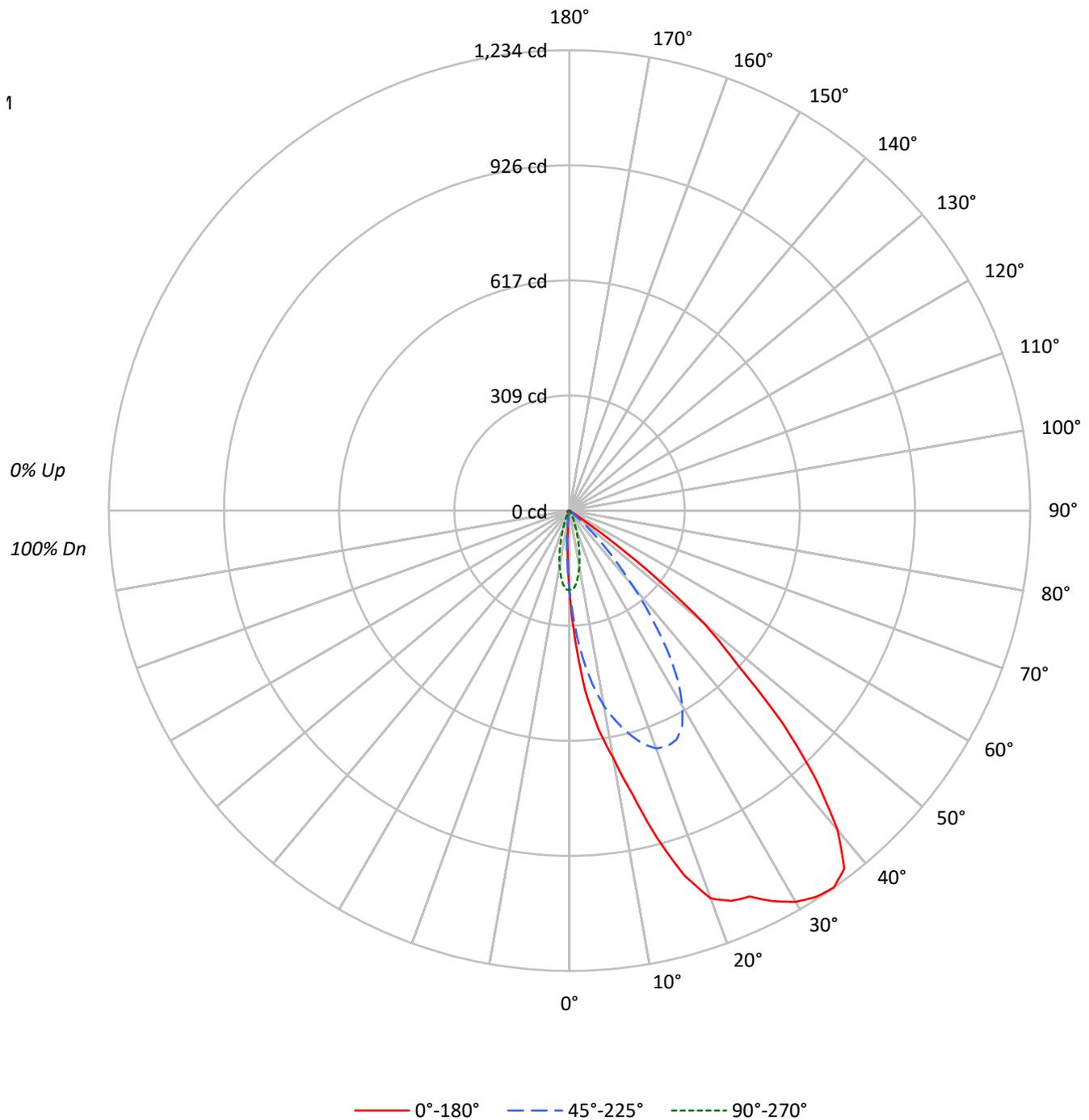
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 559.0 lumens  
Efficiency: N/A  
Efficacy: 77.6 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 (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°	36632	36632	36632	36632	36632
5°	83484	67735	34265	13744	9370
10°	117641	93036	26494	3025	1382
15°	162126	110687	16920	998	838
20°	202721	124316	8834	678	678
25°	216934	128724	4086	532	627
30°	240786	120214	1849	557	656
35°	259379	95830	589	589	778
40°	250990	59375	315	742	944
45°	197088	28009	341	901	1145
50°	126624	3269	509	1125	1500
55°	19217	270	570	1411	1832
60°	310	310	654	1619	1929
65°	367	367	774	1712	2282
70°	453	453	957	1863	2568
75°	333	599	1264	2196	2795
80°	496	893	1389	2281	3273
85°	0	988	1778	2766	2766

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 197088 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.3	4.2
10°-20°	84.2	15.1
20°-30°	147.9	26.5
30°-40°	167.9	30.0
40°-50°	108.7	19.5
50°-60°	21.3	3.8
60°-70°	2.6	0.5
70°-80°	2.1	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°	255.3	45.7
0°-40°	423.2	75.7
0°-60°	553.3	99.0
0°-90°	559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	559.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	213	213	213	213	213	
5°	483	392	198	80	54	51
15°	909	621	95	6	5	262
25°	1142	677	22	3	3	535
35°	1234	456	3	3	4	758
45°	809	115	1	4	5	610
55°	64	1	2	5	6	122
65°	1	1	2	4	6	1
75°	0	1	2	3	4	1
85°	0	0	1	1	1	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°	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7
2.5°	345.5	344.5	345.9	336.6	336.1	329.1	327.2	319.3	308.5	303.4	291.3
5°	482.9	478.2	478.2	467.0	463.3	455.3	441.8	425.0	410.9	391.8	371.2
7.5°	589.0	588.1	588.1	578.3	568.9	557.7	539.5	520.3	497.9	468.4	438.5
10°	672.7	674.1	669.9	661.0	647.5	635.3	613.8	590.4	562.9	532.0	492.3
12.5°	778.4	768.1	764.8	744.7	727.4	704.0	678.3	651.7	617.6	578.8	533.9
15°	909.3	896.2	883.1	856.5	827.5	791.5	751.3	712.0	668.1	620.8	564.7
17.5°	1026.2	1026.2	1008.9	966.8	929.4	876.1	821.9	769.5	717.6	655.4	585.3
20°	1106.1	1101.9	1088.8	1057.9	1015.4	955.1	884.5	811.1	748.5	678.3	597.0
22.5°	1132.3	1131.3	1131.8	1113.6	1079.4	1016.8	930.3	843.8	765.3	683.9	591.4
25°	1141.6	1143.5	1148.2	1141.2	1115.4	1052.8	958.4	859.3	770.4	677.4	569.9
27.5°	1180.4	1176.7	1181.8	1177.2	1148.2	1073.4	964.0	855.5	759.2	653.6	531.5
30°	1210.8	1209.9	1218.8	1214.6	1176.7	1086.5	958.8	841.5	731.6	604.5	471.2
32.5°	1228.1	1228.6	1230.9	1213.6	1157.5	1057.9	933.6	813.0	679.7	540.4	392.7
35°	1233.7	1230.9	1217.8	1175.3	1098.6	992.0	871.4	745.2	609.1	455.8	310.4
37.5°	1209.4	1194.9	1161.3	1097.7	1008.9	909.3	791.9	659.6	512.4	360.0	231.4
40°	1116.4	1097.2	1054.7	989.7	906.9	810.6	690.5	552.1	397.4	264.1	162.7
42.5°	977.1	967.2	922.8	866.3	796.1	698.9	575.0	434.8	294.1	182.3	103.8
45°	809.2	796.6	768.6	718.5	663.4	561.5	446.0	311.4	200.6	115.0	51.4
47.5°	606.8	607.7	588.6	550.7	496.5	411.4	305.3	209.0	125.8	59.4	11.7
50°	472.6	466.1	439.0	400.2	337.1	274.0	197.3	131.8	66.4	12.2	0.9
52.5°	261.8	266.0	251.5	238.9	206.2	163.6	116.4	66.9	14.0	1.4	0.9
55°	64.0	67.8	65.0	66.4	68.7	61.2	47.2	13.1	1.4	0.9	0.9
57.5°	1.4	1.4	1.4	1.4	2.3	3.3	3.3	0.9	0.9	0.9	0.9
60°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.9	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9
82.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.9
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°	212.7	212.7	212.7	212.7	212.7	212.7	212.7	212.7
2.5°	285.2	276.3	259.9	211.3	169.7	137.0	117.3	115.5
5°	353.0	329.1	294.5	198.2	125.3	79.5	57.5	54.2
7.5°	406.7	373.1	319.8	176.7	85.6	40.7	22.4	18.7
10°	451.1	403.4	332.9	151.5	53.8	17.3	9.3	7.9
12.5°	481.5	424.0	335.2	123.4	30.9	8.4	6.1	5.6
15°	501.2	430.6	324.0	94.9	17.3	5.6	5.1	4.7
17.5°	509.1	425.0	302.5	68.7	9.3	4.2	4.2	4.2
20°	505.4	406.7	270.7	48.2	6.1	3.7	3.7	3.7
22.5°	487.6	375.4	230.9	32.3	4.2	3.3	3.3	3.3
25°	452.5	332.9	188.9	21.5	2.8	2.8	3.3	3.3
27.5°	400.2	280.5	144.5	14.5	2.3	2.8	3.3	3.3
30°	334.3	222.1	103.8	9.3	2.3	2.8	2.8	3.3
32.5°	265.5	161.8	68.3	5.6	1.9	2.8	3.3	3.7
35°	192.6	110.3	43.5	2.8	2.3	2.8	3.3	3.7
37.5°	135.1	72.0	25.2	1.9	2.3	2.8	3.7	3.7
40°	87.9	40.2	9.3	1.4	2.3	3.3	3.7	4.2
42.5°	45.8	14.0	1.9	1.4	2.3	3.3	4.2	4.7
45°	11.7	1.9	0.5	1.4	2.8	3.7	4.7	4.7
47.5°	1.4	0.5	0.5	1.9	2.8	4.2	4.7	5.1
50°	0.5	0.9	0.9	1.9	2.8	4.2	5.1	5.6
52.5°	0.9	0.9	0.9	1.9	3.3	4.2	5.6	6.1
55°	0.9	0.9	0.9	1.9	3.3	4.7	5.6	6.1
57.5°	0.9	0.9	0.9	1.9	3.3	4.7	5.6	5.6
60°	0.9	0.9	0.9	1.9	3.3	4.7	5.6	5.6
62.5°	0.9	0.9	1.4	1.9	3.3	4.2	5.6	5.6
65°	0.9	1.4	1.4	1.9	3.3	4.2	5.1	5.6
67.5°	0.9	0.9	1.4	1.9	3.3	4.2	5.1	5.6
70°	0.9	0.9	1.4	1.9	2.8	3.7	4.7	5.1
72.5°	0.9	0.9	1.4	1.9	2.8	3.7	4.2	4.7
75°	0.9	0.9	1.4	1.9	2.3	3.3	4.2	4.2
77.5°	0.9	0.9	1.4	1.4	2.3	2.8	3.7	3.7
80°	0.9	0.9	1.4	1.4	1.9	2.3	2.8	3.3
82.5°	0.9	0.9	0.9	1.4	1.4	1.9	2.3	2.3
85°	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4
87.5°	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)