

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: P1312636

Luminaire Tested: LDSQA3D13R709050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R709050DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

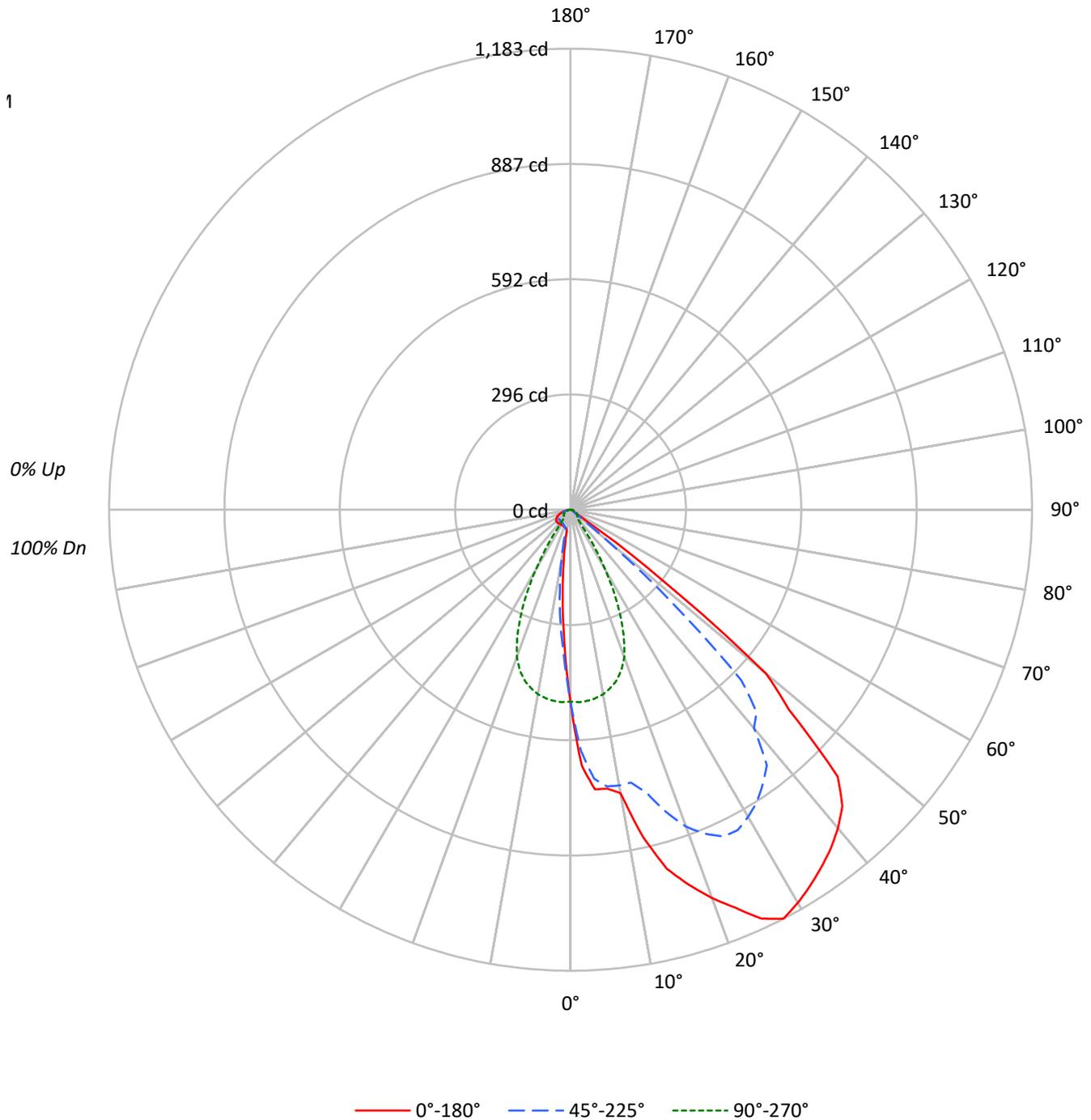
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 935.0 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	92	92	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	82	82	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	73	73	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	65	65	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	59	59	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	53	53	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	48	48	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	43	43	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	36	36	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	84785	84785	84785	84785	84785
5°	124543	119772	85109	50810	39797
10°	129131	125616	84047	24308	9828
15°	170061	133920	80965	8701	8505
20°	194254	158662	73695	8357	8559
25°	219956	175794	57863	8057	8475
30°	231659	181027	35875	8014	9068
35°	235537	180685	11816	8263	9587
40°	239704	164344	5733	8835	10499
45°	235912	150910	5943	9304	11374
50°	175388	27865	5975	10235	12512
55°	14022	3813	6366	10839	13392
60°	2928	4030	6200	10953	13881
65°	3016	3871	6072	10799	14263
70°	2669	3726	5891	10172	13898
75°	2129	3527	4924	9915	13441
80°	2083	3174	5256	9422	12596
85°	2174	4150	6323	8299	10473

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 238761 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	4.8
10°-20°	126.0	13.5
20°-30°	211.5	22.6
30°-40°	254.4	27.2
40°-50°	201.7	21.6
50°-60°	64.5	6.9
60°-70°	18.0	1.9
70°-80°	10.7	1.1
80°-90°	3.4	0.4
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°	382.3	40.9
0°-40°	636.7	68.1
0°-60°	902.9	96.6
0°-90°	935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	935.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	492	492	492	492	492	
5°	720	693	492	294	230	68
15°	954	751	454	49	48	268
25°	1158	925	304	42	45	529
35°	1120	859	56	39	46	702
45°	969	620	24	38	47	696
55°	47	13	21	36	45	146
65°	7	10	15	26	35	7
75°	3	5	7	15	20	4
85°	1	2	3	4	5	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°	492.3	492.3	492.3	492.3	492.3	492.3	492.3	492.3	492.3	492.3	492.3
2.5°	656.7	661.0	661.0	655.7	657.8	649.3	642.9	633.4	631.3	619.6	604.7
5°	720.4	718.3	718.3	714.0	716.1	712.9	709.8	707.6	701.3	692.8	684.3
7.5°	721.4	723.6	724.6	723.6	727.8	724.6	724.6	724.6	720.4	716.1	707.6
10°	738.4	735.2	732.0	724.6	720.4	717.2	717.2	718.3	720.4	718.3	712.9
12.5°	860.4	848.7	843.4	825.4	811.6	788.3	761.8	741.6	723.6	717.2	712.9
15°	953.8	951.7	941.0	924.1	907.1	879.5	848.7	818.0	785.1	751.1	726.7
17.5°	1008.9	1004.7	994.1	976.1	955.9	930.4	906.0	882.7	850.9	812.7	773.4
20°	1059.9	1050.3	1036.5	1015.3	995.2	970.8	944.2	922.0	895.4	865.7	820.1
22.5°	1105.5	1097.0	1074.7	1046.1	1025.9	1002.6	979.2	958.0	933.6	899.7	858.3
25°	1157.5	1138.4	1102.3	1065.2	1040.8	1021.7	1004.7	987.7	962.3	925.1	876.3
27.5°	1182.9	1156.4	1117.2	1080.0	1056.7	1036.5	1018.5	1001.5	972.9	927.3	871.0
30°	1164.9	1150.1	1122.5	1093.8	1074.7	1055.6	1034.4	1008.9	963.3	910.3	858.3
32.5°	1143.7	1136.3	1123.5	1106.6	1094.9	1075.8	1046.1	1004.7	941.0	889.1	832.8
35°	1120.3	1117.2	1112.9	1105.5	1098.1	1080.0	1042.9	982.4	918.8	859.4	805.3
37.5°	1095.9	1092.8	1095.9	1094.9	1088.5	1065.2	1008.9	952.7	886.9	826.5	721.4
40°	1066.2	1064.1	1069.4	1074.7	1067.3	1036.5	976.1	908.2	849.8	731.0	694.9
42.5°	1031.2	1030.2	1039.7	1044.0	1033.4	987.7	916.6	866.8	743.7	705.5	620.6
45°	968.6	970.8	975.0	980.3	973.9	924.1	859.4	768.1	714.0	619.6	353.3
47.5°	758.6	760.7	781.9	826.5	857.2	840.3	785.1	717.2	638.7	354.4	111.4
50°	654.6	652.5	653.5	664.1	688.5	711.9	694.9	657.8	380.9	104.0	13.8
52.5°	287.5	319.3	353.3	448.8	510.3	575.0	587.8	411.6	124.1	13.8	13.8
55°	46.7	48.8	61.5	90.2	162.3	245.1	297.1	137.9	12.7	12.7	12.7
57.5°	9.5	9.5	9.5	10.6	15.9	33.9	39.3	11.7	11.7	11.7	12.7
60°	8.5	8.5	8.5	8.5	9.5	9.5	9.5	10.6	10.6	11.7	11.7
62.5°	8.5	8.5	8.5	8.5	8.5	8.5	9.5	9.5	10.6	10.6	11.7
65°	7.4	7.4	7.4	7.4	8.5	8.5	8.5	8.5	9.5	9.5	10.6
67.5°	6.4	6.4	6.4	6.4	7.4	7.4	7.4	8.5	8.5	8.5	9.5
70°	5.3	5.3	5.3	5.3	6.4	6.4	6.4	6.4	7.4	7.4	7.4
72.5°	4.2	4.2	4.2	4.2	5.3	5.3	5.3	5.3	6.4	6.4	6.4
75°	3.2	3.2	4.2	4.2	4.2	4.2	4.2	4.2	5.3	5.3	5.3
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	4.2	4.2	4.2
80°	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2	3.2
82.5°	1.1	1.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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°	492.3	492.3	492.3	492.3	492.3	492.3	492.3	492.3
2.5°	595.2	580.3	560.2	494.4	433.9	378.8	351.2	348.0
5°	670.5	656.7	622.8	492.3	376.6	293.9	244.0	230.2
7.5°	699.2	687.5	657.8	488.0	322.5	211.1	154.9	133.7
10°	706.6	699.2	673.7	480.6	266.3	139.0	73.2	56.2
12.5°	709.8	704.5	680.1	468.9	210.1	72.1	49.9	49.9
15°	715.1	709.8	686.4	454.1	154.9	48.8	47.7	47.7
17.5°	738.4	721.4	694.9	431.8	101.8	46.7	46.7	46.7
20°	776.6	739.5	699.2	402.1	63.7	45.6	45.6	46.7
22.5°	808.4	758.6	698.1	357.5	46.7	43.5	44.6	45.6
25°	822.2	767.1	688.5	304.5	40.3	42.4	44.6	44.6
27.5°	820.1	770.2	680.1	244.0	38.2	41.4	43.5	45.6
30°	808.4	761.8	661.0	180.4	36.1	40.3	43.5	45.6
32.5°	788.3	728.9	622.8	116.7	35.0	40.3	43.5	45.6
35°	722.5	675.8	567.6	56.2	33.9	39.3	44.6	45.6
37.5°	684.3	619.6	432.9	27.6	32.9	39.3	44.6	45.6
40°	622.8	462.6	195.2	25.5	32.9	39.3	44.6	46.7
42.5°	391.5	189.9	31.8	24.4	31.8	39.3	44.6	46.7
45°	143.2	25.5	17.0	24.4	31.8	38.2	44.6	46.7
47.5°	14.9	14.9	15.9	23.3	30.8	38.2	44.6	46.7
50°	13.8	14.9	15.9	22.3	29.7	38.2	43.5	46.7
52.5°	13.8	14.9	15.9	22.3	28.6	37.1	43.5	46.7
55°	13.8	14.9	14.9	21.2	27.6	36.1	42.4	44.6
57.5°	12.7	13.8	14.9	20.2	26.5	33.9	41.4	43.5
60°	12.7	13.8	14.9	18.0	25.5	31.8	39.3	40.3
62.5°	11.7	12.7	13.8	17.0	23.3	29.7	36.1	38.2
65°	11.7	11.7	12.7	14.9	21.2	26.5	32.9	35.0
67.5°	9.5	10.6	10.6	12.7	18.0	23.3	29.7	31.8
70°	8.5	8.5	9.5	11.7	15.9	20.2	25.5	27.6
72.5°	7.4	7.4	7.4	9.5	13.8	18.0	22.3	24.4
75°	6.4	6.4	6.4	7.4	11.7	14.9	19.1	20.2
77.5°	5.3	5.3	5.3	6.4	9.5	12.7	14.9	17.0
80°	4.2	4.2	4.2	5.3	7.4	9.5	11.7	12.7
82.5°	3.2	3.2	3.2	4.2	5.3	6.4	8.5	8.5
85°	2.1	2.1	2.1	3.2	3.2	4.2	5.3	5.3
87.5°	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)