

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: P1320174

Luminaire Tested: LDSQA3D13R609840DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R609840DE010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

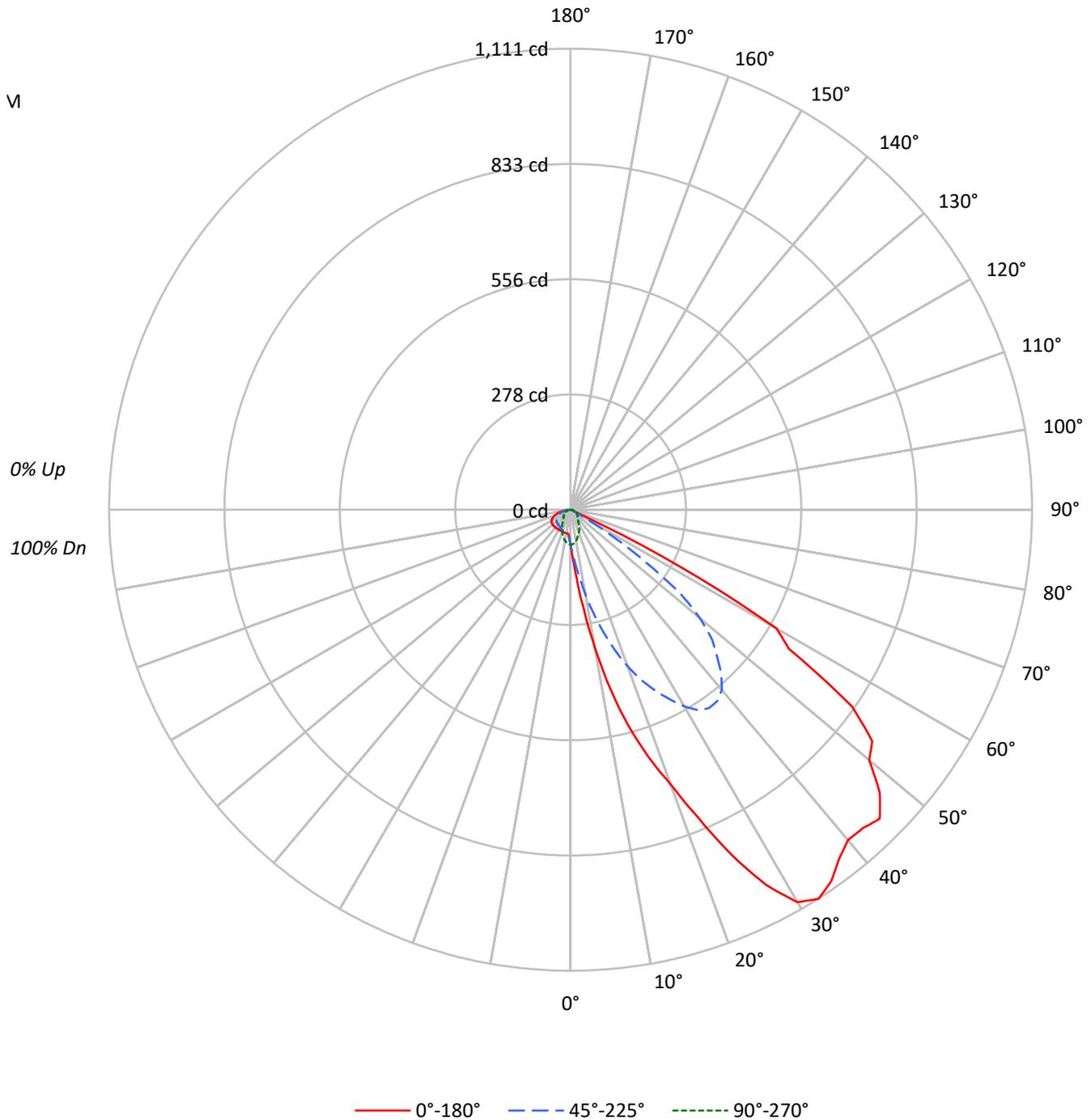
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 846.0 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14432	14432	14432	14432	14432
5°	28456	22198	14228	10770	10235
10°	58777	36183	13308	9811	9951
15°	96120	54292	11928	9878	10145
20°	128971	73567	10703	9860	10282
25°	174482	91327	9349	9786	10660
30°	217161	108740	7796	9784	11156
35°	229924	122552	6623	10029	11648
40°	233589	127428	6048	10364	12612
45°	256420	121366	5797	11058	13664
50°	251373	108780	5761	11735	15031
55°	248466	66718	5765	12701	16634
60°	197092	15879	6097	13502	18014
65°	12551	2812	5950	13774	19438
70°	2719	3122	5791	14351	20545
75°	2529	3061	5124	13841	20961
80°	2281	3075	5356	13687	19836
85°	1581	2964	6126	12251	19760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 270657 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	1.2
10°-20°	52.7	6.2
20°-30°	122.3	14.5
30°-40°	190.2	22.5
40°-50°	216.7	25.6
50°-60°	182.5	21.6
60°-70°	53.0	6.3
70°-80°	13.6	1.6
80°-90°	4.6	0.5
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°	185.5	21.9
0°-40°	375.7	44.4
0°-60°	774.9	91.6
0°-90°	846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	846.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	84	84	84	84	84	
5°	165	128	82	62	59	21
15°	539	304	67	55	57	156
25°	918	481	49	52	56	426
35°	1094	583	32	48	55	679
45°	1053	498	24	45	56	791
55°	828	222	19	42	55	696
65°	31	7	15	34	48	152
75°	4	5	8	21	32	4
85°	1	2	3	6	10	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
2.5°	113.0	112.3	112.3	111.5	110.7	110.0	107.7	106.9	102.3	93.1	83.8
5°	164.6	163.8	161.5	160.7	156.9	151.5	146.1	140.7	128.4	102.3	82.3
7.5°	238.4	239.9	238.4	229.9	224.6	216.1	199.9	188.4	163.8	111.5	79.2
10°	336.1	336.1	333.8	320.7	309.1	293.0	272.2	252.2	206.9	120.0	76.1
12.5°	442.2	444.5	433.0	422.2	401.4	381.4	353.0	323.0	256.1	126.9	72.3
15°	539.1	537.5	526.0	512.2	490.6	463.0	433.0	394.5	304.5	131.5	66.9
17.5°	625.2	622.1	612.1	596.8	570.6	539.9	501.4	459.9	354.5	135.3	63.1
20°	703.7	692.9	681.4	665.2	639.8	607.5	567.5	520.6	401.4	135.3	58.4
22.5°	802.9	792.1	775.9	751.3	717.5	677.5	630.6	577.5	443.0	132.3	53.8
25°	918.2	909.8	882.1	850.5	806.7	759.0	704.4	632.9	480.6	127.7	49.2
27.5°	1019.0	1009.7	982.0	935.9	882.8	825.9	768.3	695.2	513.7	119.2	43.8
30°	1092.0	1080.5	1058.9	1015.1	950.5	881.3	812.9	742.9	546.8	109.2	39.2
32.5°	1111.2	1109.7	1093.6	1061.3	1003.6	927.4	845.9	769.8	572.9	96.1	35.4
35°	1093.6	1095.9	1092.8	1076.6	1034.3	959.7	867.5	784.4	582.9	83.1	31.5
37.5°	1061.3	1064.3	1069.7	1072.0	1045.1	979.0	879.8	790.6	580.6	70.0	29.2
40°	1039.0	1037.4	1037.4	1052.8	1047.4	987.4	881.3	785.9	566.8	56.1	26.9
42.5°	1041.3	1024.3	1012.8	1037.4	1045.1	983.6	871.3	773.6	536.8	43.1	24.6
45°	1052.8	1016.7	996.7	1028.2	1040.5	970.5	852.8	755.2	498.3	30.0	23.8
47.5°	1009.7	985.9	982.8	1027.4	1032.0	948.2	824.4	726.0	461.4	20.8	22.3
50°	938.2	934.4	950.5	996.7	997.4	911.3	792.1	672.9	406.0	14.6	21.5
52.5°	915.9	918.2	932.8	956.7	934.4	849.0	733.7	628.3	336.1	11.5	20.8
55°	827.5	831.3	845.2	859.8	843.6	772.9	662.9	574.5	222.2	10.8	19.2
57.5°	622.9	632.9	658.3	671.4	672.9	629.8	600.6	495.3	125.4	10.8	18.5
60°	572.2	559.1	547.5	520.6	496.0	490.6	493.7	371.4	46.1	10.0	17.7
62.5°	299.2	293.0	310.7	322.2	325.3	342.2	319.9	196.1	10.0	10.0	16.1
65°	30.8	30.8	37.7	50.0	83.1	110.7	105.4	56.9	6.9	9.2	14.6
67.5°	9.2	9.2	9.2	10.8	13.8	13.8	11.5	8.5	6.9	8.5	13.1
70°	5.4	5.4	5.4	5.4	5.4	5.4	6.2	5.4	6.2	7.7	11.5
72.5°	4.6	4.6	4.6	4.6	5.4	5.4	5.4	5.4	5.4	6.9	10.0
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.6	4.6	5.4	7.7
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.8	3.8	3.8	4.6	6.2
80°	2.3	2.3	2.3	2.3	2.3	3.1	3.1	3.1	3.1	3.8	5.4
82.5°	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3	2.3	3.1	3.8
85°	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	3.1
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	2.3
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):

	112.5°	135°	157.5°	180°
0°	83.8	83.8	83.8	83.8
2.5°	76.1	70.8	67.7	66.1
5°	69.2	62.3	60.0	59.2
7.5°	63.1	58.4	57.7	57.7
10°	59.2	56.1	56.9	56.9
12.5°	56.9	56.1	56.9	57.7
15°	54.6	55.4	56.9	56.9
17.5°	53.1	54.6	56.1	56.9
20°	50.8	53.8	56.1	56.1
22.5°	49.2	53.1	55.4	56.1
25°	47.7	51.5	54.6	56.1
27.5°	45.4	50.8	54.6	55.4
30°	43.1	49.2	53.8	56.1
32.5°	40.8	48.4	53.8	55.4
35°	39.2	47.7	53.8	55.4
37.5°	37.7	46.9	53.8	56.1
40°	36.9	46.1	53.1	56.1
42.5°	35.4	46.1	53.1	56.1
45°	34.6	45.4	53.1	56.1
47.5°	33.8	44.6	53.1	56.1
50°	32.3	43.8	52.3	56.1
52.5°	31.5	43.1	52.3	56.1
55°	30.0	42.3	51.5	55.4
57.5°	29.2	40.8	50.8	53.8
60°	27.7	39.2	49.2	52.3
62.5°	25.4	36.9	46.9	50.8
65°	23.1	33.8	44.6	47.7
67.5°	20.8	31.5	41.5	44.6
70°	18.5	28.5	37.7	40.8
72.5°	16.1	24.6	33.8	36.1
75°	13.8	20.8	28.5	31.5
77.5°	10.8	16.9	23.8	26.1
80°	8.5	13.8	18.5	20.0
82.5°	6.9	10.0	13.8	14.6
85°	4.6	6.2	8.5	10.0
87.5°	2.3	3.1	3.8	4.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)