

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: P1320028

Luminaire Tested: LDSQA3D09R609840DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320028
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: LDSQA3D09R609840DE010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

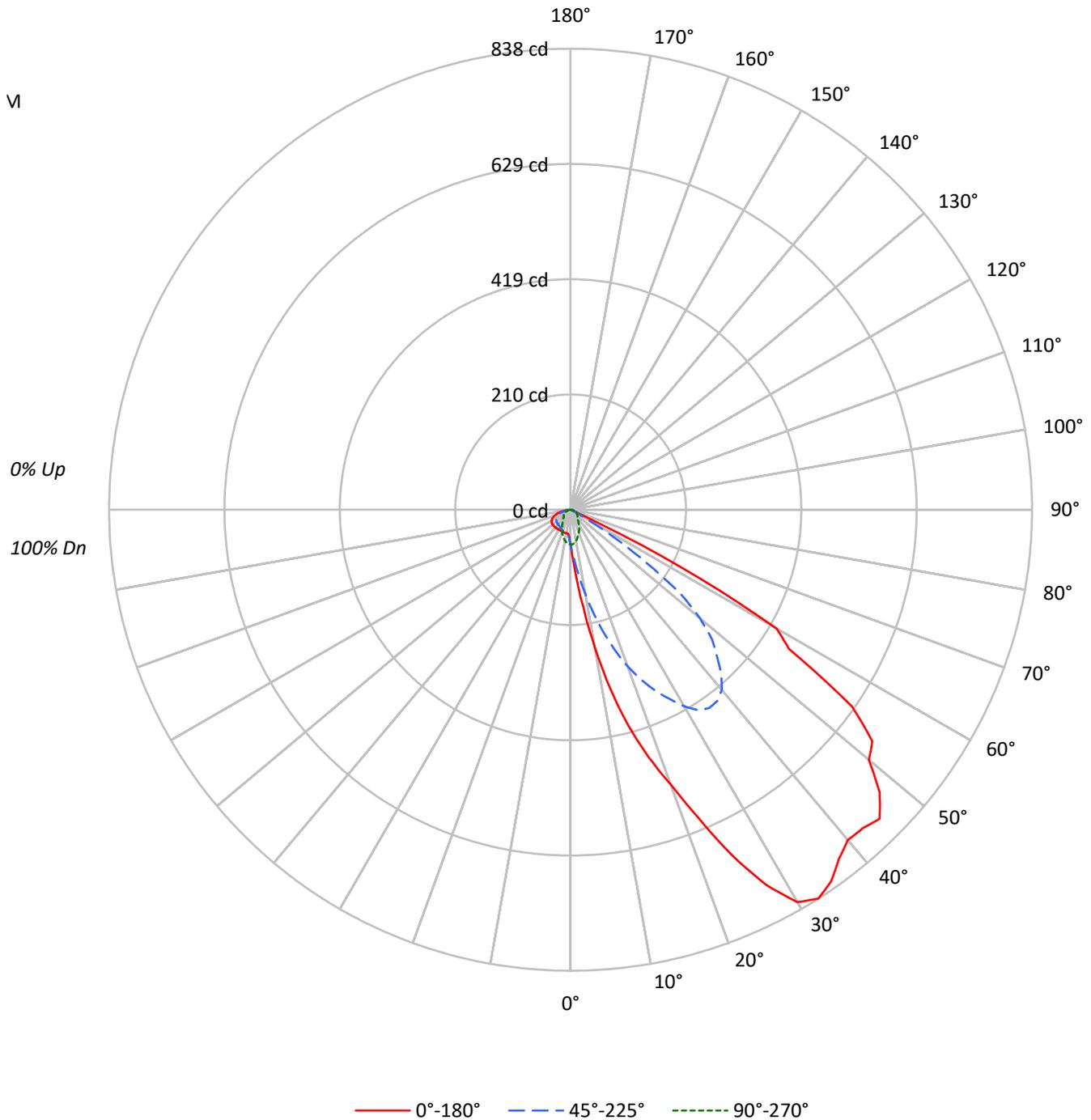
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 638.0 lumens
Efficiency: N/A
Efficacy: 58.0 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): 11
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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	94	87	87	87		
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87	87	87	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74	74	74	74	74	74	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62	62	62	62	62	62	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53	53	53	53	53	53	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	45	45	45	45	45	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39	39	39	39	39	39	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33	33	33	33	33	33	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29	29	29	29	29	29	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25	25	25	25	25	25	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22	22	22	22	22	22	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10884	10884	10884	10884	10884
5°	21454	16752	10736	8125	7728
10°	44314	27281	10038	7397	7502
15°	72478	40955	9004	7453	7649
20°	97264	55477	8082	7441	7753
25°	131593	68885	7050	7392	8038
30°	163766	81992	5886	7378	8412
35°	173389	92424	5004	7569	8788
40°	176147	96088	4564	7824	9510
45°	193386	91530	4384	8330	10303
50°	189561	82040	4340	8869	11333
55°	187363	50324	4354	9578	12551
60°	148628	11987	4581	10196	13571
65°	9454	2119	4483	10392	14670
70°	2065	2316	4381	10826	15459
75°	1930	2329	3859	10447	15837
80°	1686	2281	4066	10315	14976
85°	1186	2371	4545	9090	14820

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 204117 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	1.2
10°-20°	39.8	6.2
20°-30°	92.3	14.5
30°-40°	143.4	22.5
40°-50°	163.4	25.6
50°-60°	137.6	21.6
60°-70°	39.9	6.3
70°-80°	10.2	1.6
80°-90°	3.5	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°	139.9	21.9
0°-40°	283.3	44.4
0°-60°	584.4	91.6
0°-90°	638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	638.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	63	63	63	63	63	
5°	124	97	62	47	45	16
15°	406	230	50	42	43	118
25°	692	362	37	39	42	322
35°	825	440	24	36	42	512
45°	794	376	18	34	42	597
55°	624	168	14	32	42	525
65°	23	5	11	26	36	115
75°	3	4	6	16	24	3
85°	1	1	2	5	8	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°	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
2.5°	85.3	84.7	84.7	84.1	83.5	82.9	81.2	80.6	77.1	70.2	63.2
5°	124.1	123.5	121.8	121.2	118.3	114.3	110.2	106.1	96.9	77.1	62.1
7.5°	179.8	180.9	179.8	173.4	169.3	163.0	150.8	142.1	123.5	84.1	59.7
10°	253.4	253.4	251.7	241.8	233.1	221.0	205.3	190.2	156.0	90.5	57.4
12.5°	333.5	335.2	326.5	318.4	302.7	287.7	266.2	243.6	193.1	95.7	54.5
15°	406.5	405.4	396.7	386.2	370.0	349.1	326.5	297.5	229.7	99.2	50.5
17.5°	471.5	469.2	461.6	450.0	430.3	407.1	378.1	346.8	267.4	102.1	47.6
20°	530.7	522.5	513.8	501.7	482.5	458.2	428.0	392.6	302.7	102.1	44.1
22.5°	605.5	597.3	585.2	566.6	541.1	510.9	475.6	435.5	334.1	99.8	40.6
25°	692.5	686.1	665.2	641.4	608.4	572.4	531.2	477.3	362.5	96.3	37.1
27.5°	768.4	761.5	740.6	705.8	665.8	622.9	579.4	524.3	387.4	89.9	33.1
30°	823.5	814.8	798.6	765.5	716.8	664.6	613.0	560.2	412.3	82.4	29.6
32.5°	838.0	836.9	824.7	800.3	756.8	699.4	637.9	580.5	432.1	72.5	26.7
35°	824.7	826.4	824.1	811.9	780.0	723.8	654.2	591.5	439.6	62.6	23.8
37.5°	800.3	802.7	806.7	808.5	788.2	738.3	663.5	596.2	437.9	52.8	22.0
40°	783.5	782.4	782.4	794.0	789.9	744.7	664.6	592.7	427.4	42.3	20.3
42.5°	785.3	772.5	763.8	782.4	788.2	741.8	657.1	583.4	404.8	32.5	18.6
45°	794.0	766.7	751.6	775.4	784.7	731.9	643.2	569.5	375.8	22.6	18.0
47.5°	761.5	743.5	741.2	774.8	778.3	715.1	621.7	547.5	348.0	15.7	16.8
50°	707.5	704.6	716.8	751.6	752.2	687.2	597.3	507.5	306.2	11.0	16.2
52.5°	690.7	692.5	703.5	721.5	704.6	640.3	553.3	473.8	253.4	8.7	15.7
55°	624.0	626.9	637.4	648.4	636.2	582.9	499.9	433.2	167.6	8.1	14.5
57.5°	469.8	477.3	496.4	506.3	507.5	475.0	452.9	373.5	94.5	8.1	13.9
60°	431.5	421.6	412.9	392.6	374.1	370.0	372.3	280.1	34.8	7.5	13.3
62.5°	225.6	221.0	234.3	243.0	245.3	258.1	241.3	147.9	7.5	7.5	12.2
65°	23.2	23.2	28.4	37.7	62.6	83.5	79.5	42.9	5.2	7.0	11.0
67.5°	7.0	7.0	7.0	8.1	10.4	10.4	8.7	6.4	5.2	6.4	9.9
70°	4.1	4.1	4.1	4.1	4.1	4.1	4.6	4.1	4.6	5.8	8.7
72.5°	3.5	3.5	3.5	3.5	4.1	4.1	4.1	4.1	4.1	5.2	7.5
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.5	3.5	4.1	5.8
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.9	2.9	2.9	3.5	4.6
80°	1.7	1.7	1.7	1.7	1.7	2.3	2.3	2.3	2.3	2.9	4.1
82.5°	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7	1.7	2.3	2.9
85°	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	2.3
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.7
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°	63.2	63.2	63.2	63.2
2.5°	57.4	53.4	51.0	49.9
5°	52.2	47.0	45.2	44.7
7.5°	47.6	44.1	43.5	43.5
10°	44.7	42.3	42.9	42.9
12.5°	42.9	42.3	42.9	43.5
15°	41.2	41.8	42.9	42.9
17.5°	40.0	41.2	42.3	42.9
20°	38.3	40.6	42.3	42.3
22.5°	37.1	40.0	41.8	42.3
25°	36.0	38.9	41.2	42.3
27.5°	34.2	38.3	41.2	41.8
30°	32.5	37.1	40.6	42.3
32.5°	30.7	36.5	40.6	41.8
35°	29.6	36.0	40.6	41.8
37.5°	28.4	35.4	40.6	42.3
40°	27.8	34.8	40.0	42.3
42.5°	26.7	34.8	40.0	42.3
45°	26.1	34.2	40.0	42.3
47.5°	25.5	33.6	40.0	42.3
50°	24.4	33.1	39.4	42.3
52.5°	23.8	32.5	39.4	42.3
55°	22.6	31.9	38.9	41.8
57.5°	22.0	30.7	38.3	40.6
60°	20.9	29.6	37.1	39.4
62.5°	19.1	27.8	35.4	38.3
65°	17.4	25.5	33.6	36.0
67.5°	15.7	23.8	31.3	33.6
70°	13.9	21.5	28.4	30.7
72.5°	12.2	18.6	25.5	27.3
75°	10.4	15.7	21.5	23.8
77.5°	8.1	12.8	18.0	19.7
80°	6.4	10.4	13.9	15.1
82.5°	5.2	7.5	10.4	11.0
85°	3.5	4.6	6.4	7.5
87.5°	1.7	2.3	2.9	3.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)