

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: P1307870

Luminaire Tested: LDSQA3D05R609027DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307870
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: LDSQA3D05R609027DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

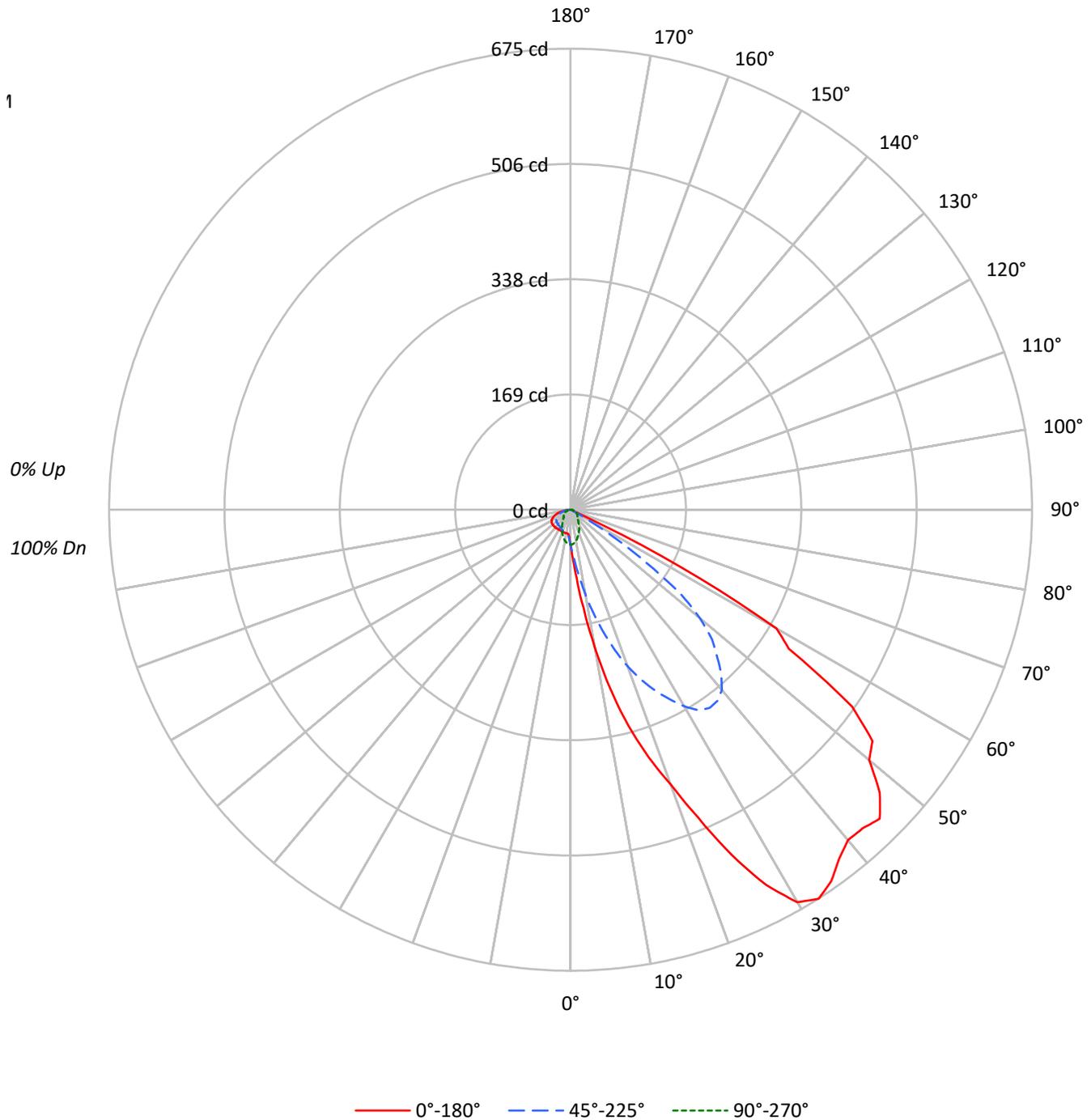
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 514.0 lumens
Efficiency: N/A
Efficacy: 71.4 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): 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	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	96	96	96	87		
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	85	85	85	74		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74	74	74	82	82	82	62		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62	62	62	75	75	75	53		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53	53	53	66	66	66	45		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	45	45	59	59	59	39		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39	39	39	53	53	53	33		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33	33	33	47	47	47	29		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29	29	29	41	41	41	25		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25	25	25	36	36	36	21		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	21	21	21	36	36	36	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8766	8766	8766	8766	8766
5°	17288	13485	8644	6535	6224
10°	35710	21982	8097	5963	6051
15°	58393	32985	7239	5991	6169
20°	78350	44701	6506	5993	6250
25°	106016	55488	5682	5948	6480
30°	131947	66063	4733	5946	6781
35°	139687	74469	4037	6097	7064
40°	141907	77428	3687	6295	7666
45°	155781	73750	3532	6722	8305
50°	152721	66099	3510	7127	9136
55°	150941	40535	3513	7717	10089
60°	119729	9644	3686	8198	10953
65°	7621	1712	3627	8395	11818
70°	1662	1863	3525	8711	12488
75°	1530	1863	3127	8384	12776
80°	1389	1884	3273	8331	12001
85°	988	1778	3754	7311	12054

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 164425 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	1.2
10°-20°	32.0	6.2
20°-30°	74.3	14.5
30°-40°	115.5	22.5
40°-50°	131.6	25.6
50°-60°	110.9	21.6
60°-70°	32.2	6.3
70°-80°	8.2	1.6
80°-90°	2.8	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°	112.7	21.9
0°-40°	228.3	44.4
0°-60°	470.8	91.6
0°-90°	514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	514.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	51	51	51	51	51	
5°	100	78	50	38	36	13
15°	328	185	41	34	35	95
25°	558	292	30	31	34	259
35°	664	354	19	29	34	413
45°	640	303	14	28	34	481
55°	503	135	12	26	34	423
65°	19	4	9	21	29	92
75°	2	3	5	13	19	2
85°	0	1	2	4	6	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°	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
2.5°	68.7	68.2	68.2	67.7	67.3	66.8	65.4	64.9	62.1	56.5	50.9
5°	100.0	99.5	98.1	97.7	95.3	92.0	88.8	85.5	78.0	62.1	50.0
7.5°	144.8	145.8	144.8	139.7	136.4	131.3	121.5	114.5	99.5	67.7	48.1
10°	204.2	204.2	202.8	194.8	187.8	178.0	165.4	153.3	125.7	72.9	46.3
12.5°	268.7	270.1	263.1	256.5	243.9	231.7	214.5	196.2	155.6	77.1	43.9
15°	327.5	326.6	319.6	311.2	298.1	281.3	263.1	239.7	185.0	79.9	40.6
17.5°	379.9	378.0	371.9	362.6	346.7	328.0	304.6	279.4	215.4	82.2	38.3
20°	427.5	421.0	414.0	404.2	388.7	369.1	344.8	316.3	243.9	82.2	35.5
22.5°	487.8	481.2	471.4	456.5	435.9	411.6	383.1	350.9	269.1	80.4	32.7
25°	557.9	552.7	535.9	516.8	490.1	461.2	428.0	384.5	292.0	77.6	29.9
27.5°	619.1	613.5	596.7	568.6	536.4	501.8	466.8	422.4	312.1	72.4	26.6
30°	663.5	656.5	643.4	616.7	577.5	535.4	493.9	451.3	332.2	66.3	23.8
32.5°	675.2	674.2	664.4	644.8	609.7	563.5	514.0	467.7	348.1	58.4	21.5
35°	664.4	665.8	663.9	654.1	628.4	583.1	527.0	476.6	354.2	50.5	19.2
37.5°	644.8	646.7	649.9	651.3	635.0	594.8	534.5	480.3	352.8	42.5	17.8
40°	631.2	630.3	630.3	639.6	636.4	599.9	535.4	477.5	344.4	34.1	16.4
42.5°	632.6	622.4	615.3	630.3	635.0	597.6	529.4	470.0	326.1	26.2	15.0
45°	639.6	617.7	605.5	624.7	632.2	589.6	518.2	458.8	302.8	18.2	14.5
47.5°	613.5	599.0	597.1	624.2	627.0	576.1	500.9	441.1	280.3	12.6	13.5
50°	570.0	567.7	577.5	605.5	606.0	553.7	481.2	408.8	246.7	8.9	13.1
52.5°	556.5	557.9	566.8	581.2	567.7	515.8	445.7	381.7	204.2	7.0	12.6
55°	502.7	505.1	513.5	522.4	512.6	469.6	402.8	349.0	135.0	6.5	11.7
57.5°	378.5	384.5	400.0	407.9	408.8	382.7	364.9	300.9	76.2	6.5	11.2
60°	347.6	339.7	332.7	316.3	301.4	298.1	300.0	225.7	28.0	6.1	10.7
62.5°	181.8	178.0	188.8	195.8	197.6	207.9	194.4	119.1	6.1	6.1	9.8
65°	18.7	18.7	22.9	30.4	50.5	67.3	64.0	34.6	4.2	5.6	8.9
67.5°	5.6	5.6	5.6	6.5	8.4	8.4	7.0	5.1	4.2	5.1	7.9
70°	3.3	3.3	3.3	3.3	3.3	3.3	3.7	3.3	3.7	4.7	7.0
72.5°	2.8	2.8	2.8	2.8	3.3	3.3	3.3	3.3	3.3	4.2	6.1
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.8	2.8	3.3	4.7
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	2.3	2.3	2.3	2.8	3.7
80°	1.4	1.4	1.4	1.4	1.4	1.9	1.9	1.9	1.9	2.3	3.3
82.5°	0.9	0.9	0.9	0.9	1.4	1.4	1.4	1.4	1.4	1.9	2.3
85°	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.9
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	1.4
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):

	112.5°	135°	157.5°	180°
0°	50.9	50.9	50.9	50.9
2.5°	46.3	43.0	41.1	40.2
5°	42.1	37.8	36.4	36.0
7.5°	38.3	35.5	35.0	35.0
10°	36.0	34.1	34.6	34.6
12.5°	34.6	34.1	34.6	35.0
15°	33.2	33.6	34.6	34.6
17.5°	32.2	33.2	34.1	34.6
20°	30.8	32.7	34.1	34.1
22.5°	29.9	32.2	33.6	34.1
25°	29.0	31.3	33.2	34.1
27.5°	27.6	30.8	33.2	33.6
30°	26.2	29.9	32.7	34.1
32.5°	24.8	29.4	32.7	33.6
35°	23.8	29.0	32.7	33.6
37.5°	22.9	28.5	32.7	34.1
40°	22.4	28.0	32.2	34.1
42.5°	21.5	28.0	32.2	34.1
45°	21.0	27.6	32.2	34.1
47.5°	20.6	27.1	32.2	34.1
50°	19.6	26.6	31.8	34.1
52.5°	19.2	26.2	31.8	34.1
55°	18.2	25.7	31.3	33.6
57.5°	17.8	24.8	30.8	32.7
60°	16.8	23.8	29.9	31.8
62.5°	15.4	22.4	28.5	30.8
65°	14.0	20.6	27.1	29.0
67.5°	12.6	19.2	25.2	27.1
70°	11.2	17.3	22.9	24.8
72.5°	9.8	15.0	20.6	22.0
75°	8.4	12.6	17.3	19.2
77.5°	6.5	10.3	14.5	15.9
80°	5.1	8.4	11.2	12.1
82.5°	4.2	6.1	8.4	8.9
85°	2.8	3.7	5.1	6.1
87.5°	1.4	1.9	2.3	2.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)