

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: P1312312

Luminaire Tested: LDSQA3D05R609050DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312312
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: LDSQA3D05R609050DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R60 optic, 5000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

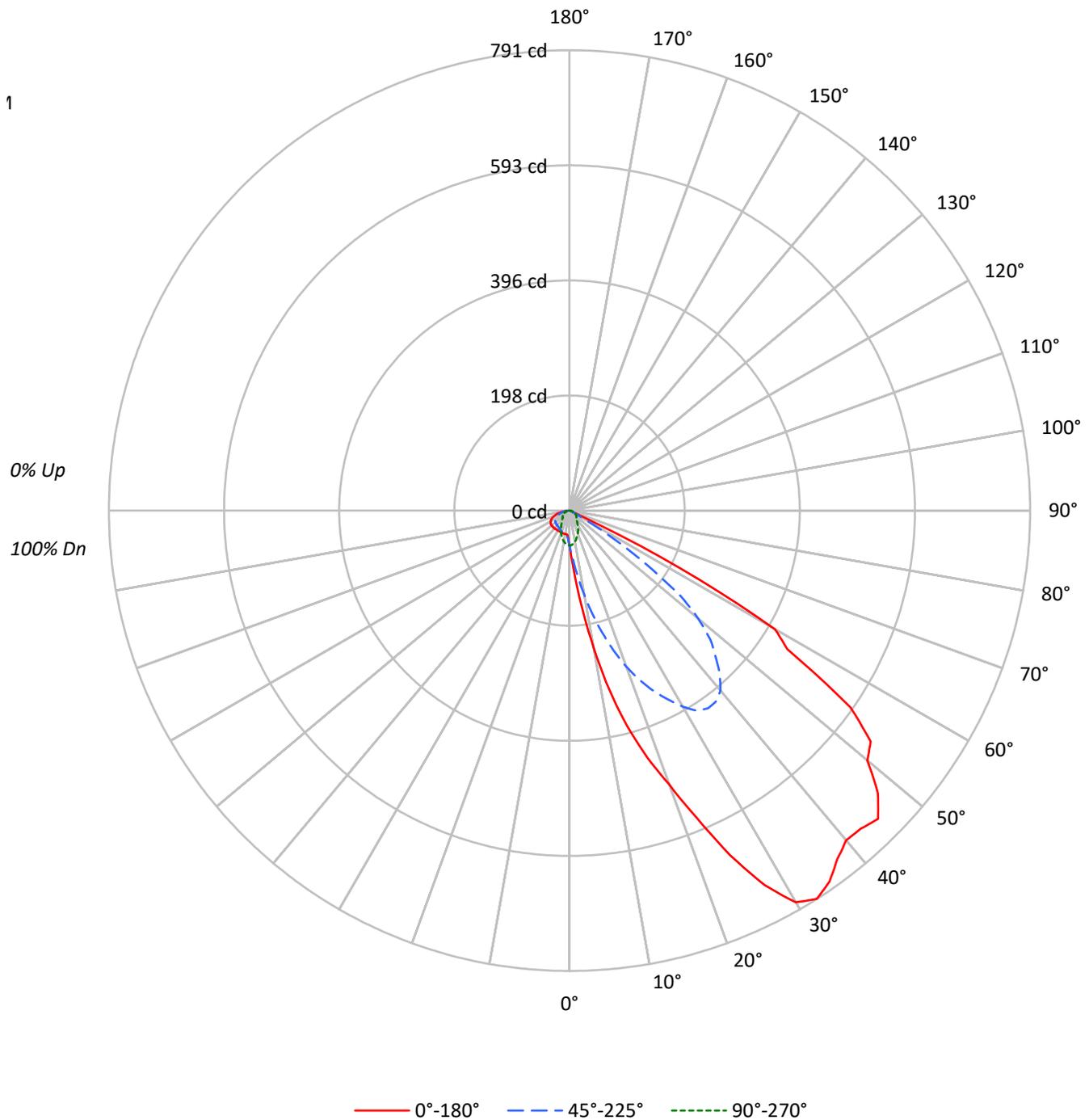
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 602.0 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 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	94	94	94	87		
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87	87	87	81	81	81	74		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74	74	74	68	68	68	62		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62	62	62	58	58	58	53		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53	53	53	49	49	49	45		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	45	45	42	42	42	39		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39	39	39	36	36	36	33		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33	33	33	32	32	32	29		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29	29	29	28	28	28	25		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25	25	25	25	25	25	22		
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°	10264	10264	10264	10264	10264
5°	20244	15801	10131	7659	7278
10°	41814	25742	9478	6978	7083
15°	68395	38637	8487	7025	7221
20°	91766	52362	7624	7019	7313
25°	124163	64989	6651	6974	7582
30°	154538	77379	5548	6960	7935
35°	163613	87210	4709	7127	8284
40°	166210	90670	4317	7374	8970
45°	182475	86366	4141	7867	9718
50°	178871	77405	4099	8359	10690
55°	176794	47471	4114	9038	11830
60°	140224	11298	4340	9610	12813
65°	8925	1997	4238	9821	13815
70°	1913	2216	4129	10172	14603
75°	1797	2196	3660	9848	14905
80°	1587	2182	3769	9819	14083
85°	988	2174	4347	8695	14030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 192575 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	1.2
10°-20°	37.5	6.2
20°-30°	87.1	14.5
30°-40°	135.3	22.5
40°-50°	154.2	25.6
50°-60°	129.9	21.6
60°-70°	37.7	6.3
70°-80°	9.6	1.6
80°-90°	3.3	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°	132.0	21.9
0°-40°	267.3	44.4
0°-60°	551.4	91.6
0°-90°	602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	602.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	60	60	60	60	60	
5°	117	91	59	44	42	15
15°	384	217	48	39	40	111
25°	653	342	35	37	40	303
35°	778	415	22	34	39	483
45°	749	355	17	32	40	563
55°	589	158	14	30	39	495
65°	22	5	10	24	34	108
75°	3	3	6	15	22	3
85°	0	1	2	4	7	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°	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
2.5°	80.4	79.9	79.9	79.3	78.8	78.3	76.6	76.1	72.8	66.2	59.6
5°	117.1	116.6	114.9	114.4	111.6	107.8	104.0	100.1	91.4	72.8	58.6
7.5°	169.6	170.7	169.6	163.6	159.8	153.8	142.3	134.1	116.6	79.3	56.4
10°	239.1	239.1	237.5	228.2	220.0	208.5	193.7	179.5	147.2	85.4	54.2
12.5°	314.7	316.3	308.1	300.4	285.7	271.4	251.2	229.8	182.2	90.3	51.4
15°	383.6	382.5	374.3	364.5	349.1	329.4	308.1	280.7	216.7	93.6	47.6
17.5°	444.9	442.7	435.6	424.6	406.0	384.2	356.8	327.2	252.3	96.3	44.9
20°	500.7	493.1	484.8	473.4	455.3	432.3	403.9	370.5	285.7	96.3	41.6
22.5°	571.3	563.6	552.2	534.6	510.6	482.1	448.7	411.0	315.2	94.1	38.3
25°	653.4	647.4	627.7	605.2	574.0	540.1	501.3	450.4	342.0	90.8	35.0
27.5°	725.1	718.5	698.8	666.0	628.2	587.7	546.7	494.7	365.5	84.8	31.2
30°	777.1	768.9	753.5	722.3	676.4	627.1	578.4	528.6	389.1	77.7	27.9
32.5°	790.7	789.6	778.2	755.2	714.1	660.0	601.9	547.8	407.7	68.4	25.2
35°	778.2	779.8	777.6	766.1	736.0	682.9	617.3	558.2	414.8	59.1	22.4
37.5°	755.2	757.4	761.2	762.8	743.7	696.6	626.0	562.5	413.2	49.8	20.8
40°	739.3	738.2	738.2	749.2	745.3	702.6	627.1	559.3	403.3	39.9	19.2
42.5°	740.9	728.9	720.7	738.2	743.7	699.9	620.0	550.5	382.0	30.6	17.5
45°	749.2	723.4	709.2	731.6	740.4	690.6	606.9	537.4	354.6	21.3	17.0
47.5°	718.5	701.5	699.4	731.1	734.4	674.7	586.6	516.6	328.3	14.8	15.9
50°	667.6	664.9	676.4	709.2	709.8	648.5	563.6	478.8	288.9	10.4	15.3
52.5°	651.7	653.4	663.8	680.7	664.9	604.1	522.1	447.1	239.1	8.2	14.8
55°	588.8	591.6	601.4	611.8	600.3	550.0	471.7	408.8	158.1	7.7	13.7
57.5°	443.3	450.4	468.4	477.7	478.8	448.2	427.4	352.4	89.2	7.7	13.1
60°	407.1	397.8	389.6	370.5	353.0	349.1	351.3	264.3	32.8	7.1	12.6
62.5°	212.9	208.5	221.1	229.3	231.5	243.5	227.6	139.5	7.1	7.1	11.5
65°	21.9	21.9	26.8	35.6	59.1	78.8	75.0	40.5	4.9	6.6	10.4
67.5°	6.6	6.6	6.6	7.7	9.9	9.9	8.2	6.0	4.9	6.0	9.3
70°	3.8	3.8	3.8	3.8	3.8	3.8	4.4	3.8	4.4	5.5	8.2
72.5°	3.3	3.3	3.3	3.3	3.8	3.8	3.8	3.8	3.8	4.9	7.1
75°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.3	3.3	3.8	5.5
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.7	2.7	2.7	3.3	4.4
80°	1.6	1.6	1.6	1.6	1.6	2.2	2.2	2.2	2.2	2.7	3.8
82.5°	1.1	1.1	1.1	1.1	1.6	1.6	1.6	1.6	1.6	2.2	2.7
85°	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	2.2
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.6
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°	59.6	59.6	59.6	59.6
2.5°	54.2	50.3	48.2	47.1
5°	49.3	44.3	42.7	42.1
7.5°	44.9	41.6	41.0	41.0
10°	42.1	39.9	40.5	40.5
12.5°	40.5	39.9	40.5	41.0
15°	38.9	39.4	40.5	40.5
17.5°	37.8	38.9	39.9	40.5
20°	36.1	38.3	39.9	39.9
22.5°	35.0	37.8	39.4	39.9
25°	33.9	36.7	38.9	39.9
27.5°	32.3	36.1	38.9	39.4
30°	30.6	35.0	38.3	39.9
32.5°	29.0	34.5	38.3	39.4
35°	27.9	33.9	38.3	39.4
37.5°	26.8	33.4	38.3	39.9
40°	26.3	32.8	37.8	39.9
42.5°	25.2	32.8	37.8	39.9
45°	24.6	32.3	37.8	39.9
47.5°	24.1	31.7	37.8	39.9
50°	23.0	31.2	37.2	39.9
52.5°	22.4	30.6	37.2	39.9
55°	21.3	30.1	36.7	39.4
57.5°	20.8	29.0	36.1	38.3
60°	19.7	27.9	35.0	37.2
62.5°	18.1	26.3	33.4	36.1
65°	16.4	24.1	31.7	33.9
67.5°	14.8	22.4	29.6	31.7
70°	13.1	20.2	26.8	29.0
72.5°	11.5	17.5	24.1	25.7
75°	9.9	14.8	20.2	22.4
77.5°	7.7	12.0	17.0	18.6
80°	6.0	9.9	13.1	14.2
82.5°	4.9	7.1	9.9	10.4
85°	3.3	4.4	6.0	7.1
87.5°	1.6	2.2	2.7	3.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)