

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: P1325269

Luminaire Tested: LDSQA3D05R50W2N902750DE010 3LSQCA45R 1MW_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R50W2N902750DE010 3LSQCA45R 1MW_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 5000K CCT AND, 90CRI ,
3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

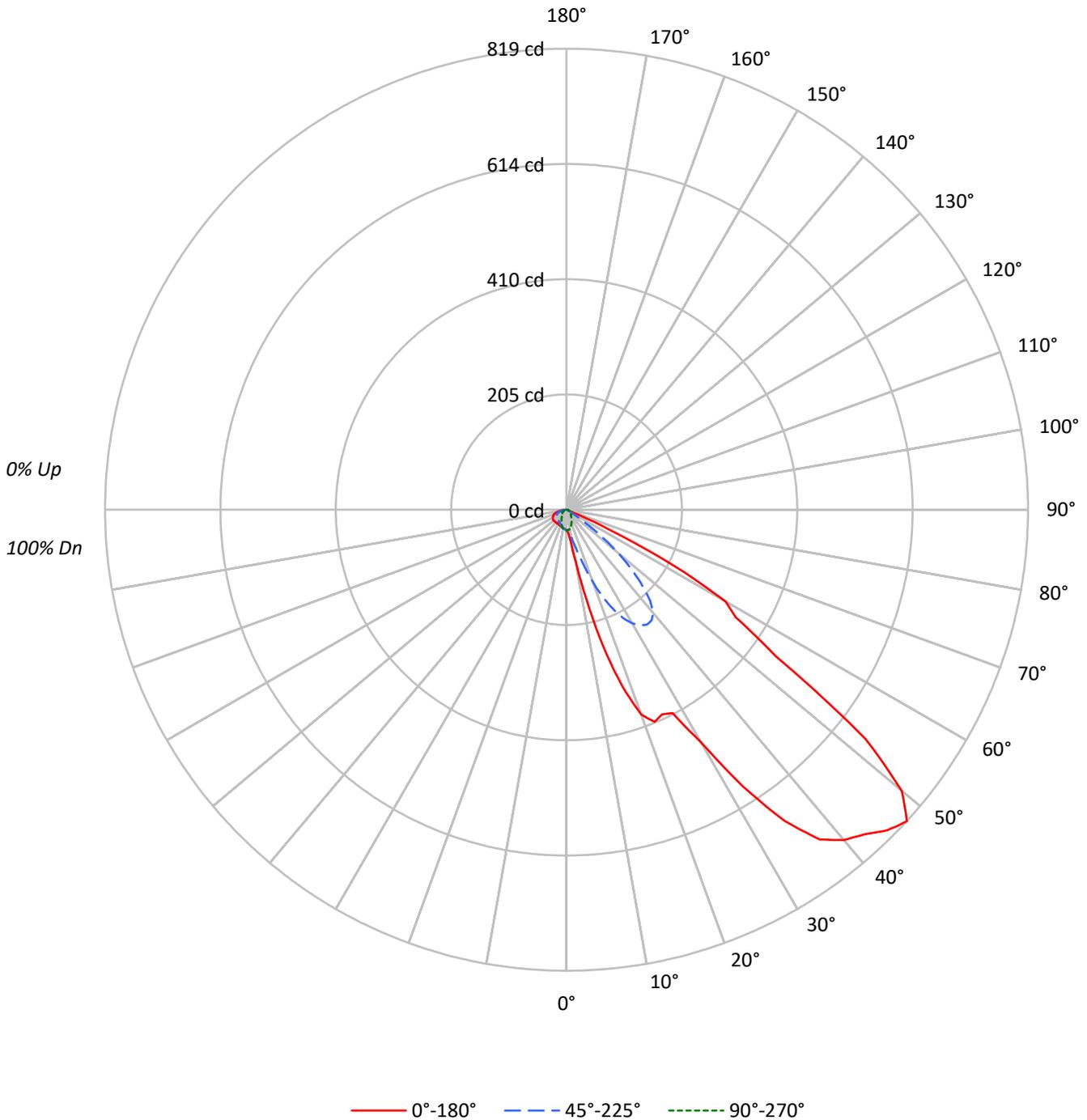
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 462.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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	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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86	
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	75	73	
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	63	61	
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	53	51	
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43	
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	39	39	39	37	
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	33	33	33	31	
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	29	29	29	27	
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	25	25	25	23	
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	22	22	22	20	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6321	6321	6321	6321	6321
5°	7520	7036	6276	5999	5930
10°	16194	8726	5998	5789	5858
15°	44824	14299	5402	5545	5759
20°	70873	25090	4674	5333	5627
25°	76201	36846	4010	5150	5682
30°	94600	46256	3500	5071	5867
35°	141957	52351	3028	5109	6202
40°	172168	53822	2698	5283	6542
45°	196139	46155	2630	5626	7185
50°	208155	31857	2679	6082	8011
55°	135988	12821	2642	6576	8858
60°	112151	2204	2618	7164	9748
65°	33824	1141	2445	7661	10718
70°	1410	1209	2417	7855	11632
75°	1331	1331	2396	7985	12776
80°	1190	1190	2380	7934	13092
85°	790	1581	3162	7904	12647

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 208832 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.8
10°-20°	21.9	4.7
20°-30°	56.2	12.2
30°-40°	101.0	21.9
40°-50°	134.9	29.2
50°-60°	102.8	22.2
60°-70°	31.2	6.8
70°-80°	7.5	1.6
80°-90°	2.7	0.6
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°	81.9	17.7
0°-40°	182.9	39.6
0°-60°	420.6	91.0
0°-90°	462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	462.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	44	41	36	35	34	6
15°	251	80	30	31	32	74
25°	401	194	21	27	30	191
35°	675	249	14	24	30	415
45°	805	190	11	23	30	616
55°	453	43	9	22	30	451
65°	83	3	6	19	26	115
75°	2	2	4	12	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°	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
2.5°	39.1	39.1	39.1	39.1	39.1	39.1	38.7	38.7	38.7	37.9	37.1
5°	43.5	43.9	43.5	43.5	42.7	42.7	41.9	41.9	40.7	38.3	36.3
7.5°	57.1	56.7	56.3	54.7	53.5	50.7	49.5	47.5	43.9	38.3	35.5
10°	92.6	90.2	88.6	85.0	77.4	72.6	66.2	59.9	49.9	38.3	34.3
12.5°	160.8	160.4	155.6	143.7	132.9	118.1	102.6	87.0	61.5	37.5	32.7
15°	251.4	247.8	241.0	227.1	207.9	184.8	156.8	129.3	80.2	36.3	30.3
17.5°	328.8	324.4	319.2	305.3	283.3	254.2	220.7	182.8	105.7	34.7	27.9
20°	386.7	383.9	379.5	368.3	347.6	321.2	283.7	237.8	136.9	32.7	25.5
22.5°	407.8	407.4	408.2	404.2	393.9	373.1	337.2	289.3	167.6	30.3	23.1
25°	401.0	400.6	405.8	411.0	413.4	405.0	377.5	330.8	193.9	28.3	21.1
27.5°	407.4	406.2	403.8	404.6	411.4	416.2	403.4	362.7	216.7	25.5	19.2
30°	475.7	468.9	458.1	439.8	426.2	425.0	419.4	387.9	232.6	22.7	17.6
32.5°	582.2	573.8	554.3	520.4	488.0	463.3	445.7	409.0	243.8	20.0	15.6
35°	675.2	669.2	646.5	612.9	566.6	520.4	488.4	440.1	249.0	17.6	14.4
37.5°	738.2	735.8	713.5	677.6	630.5	575.8	533.5	472.1	247.8	14.8	13.2
40°	765.8	758.6	739.8	709.5	662.0	612.9	568.2	492.4	239.4	12.0	12.0
42.5°	782.1	774.2	753.8	725.1	678.4	626.1	572.2	483.6	219.5	9.6	11.6
45°	805.3	796.9	770.2	739.4	692.3	631.7	556.7	452.5	189.5	7.2	10.8
47.5°	819.2	813.7	793.7	763.0	705.9	623.7	520.8	423.4	156.4	5.6	10.4
50°	776.9	771.4	756.6	735.4	697.1	597.0	489.2	376.3	118.9	4.4	10.0
52.5°	668.8	673.6	676.4	682.4	654.4	537.1	442.1	338.8	80.2	3.6	9.2
55°	452.9	460.1	468.1	492.0	524.7	478.1	392.7	292.9	42.7	3.6	8.8
57.5°	356.0	353.6	351.2	349.6	375.1	394.3	345.2	234.2	18.4	3.6	8.0
60°	325.6	318.4	313.7	314.8	327.6	320.0	273.3	152.8	6.4	3.6	7.6
62.5°	213.5	219.1	229.9	248.2	239.4	205.5	158.8	60.7	3.2	3.6	6.8
65°	83.0	80.2	83.0	88.2	76.2	56.7	35.5	10.8	2.8	3.2	6.0
67.5°	11.2	10.0	7.6	4.8	4.4	4.0	3.2	2.8	2.8	3.2	5.6
70°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.4	2.4	2.8	4.8
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.8	4.0
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.4	3.6
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0	2.8
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	2.4
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.6	2.0
85°	0.4	0.8	0.4	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.6
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.2
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°	36.7	36.7	36.7	36.7
2.5°	36.3	35.5	35.5	35.5
5°	35.5	34.7	34.7	34.3
7.5°	34.3	33.9	33.9	33.9
10°	33.5	33.1	33.5	33.5
12.5°	31.9	32.3	32.7	32.7
15°	30.3	31.1	31.9	32.3
17.5°	28.7	30.3	31.1	31.5
20°	27.1	29.1	30.3	30.7
22.5°	25.9	27.9	29.5	30.3
25°	24.3	27.1	29.1	29.9
27.5°	22.7	25.9	28.3	29.5
30°	21.5	25.5	28.3	29.5
32.5°	20.4	24.7	27.9	29.1
35°	19.6	24.3	27.9	29.5
37.5°	18.8	23.9	27.9	29.1
40°	18.4	23.5	27.9	29.1
42.5°	18.0	23.5	27.9	29.5
45°	17.2	23.1	27.9	29.5
47.5°	16.8	23.1	27.9	29.5
50°	16.4	22.7	27.9	29.9
52.5°	16.0	22.3	27.9	29.9
55°	15.2	21.9	27.5	29.5
57.5°	14.8	21.5	27.1	28.7
60°	14.0	20.8	26.3	28.3
62.5°	13.2	20.0	25.5	27.1
65°	12.0	18.8	24.3	26.3
67.5°	10.8	17.2	23.1	25.1
70°	9.6	15.6	21.5	23.1
72.5°	8.4	14.0	20.0	21.1
75°	7.2	12.0	17.6	19.2
77.5°	6.0	10.4	14.8	16.0
80°	4.4	8.0	12.0	13.2
82.5°	3.6	6.0	8.8	9.6
85°	2.4	4.0	5.6	6.4
87.5°	1.2	2.0	2.8	3.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)