

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: P1320439

Luminaire Tested: LDSQA3D20R459840D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R459840D010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

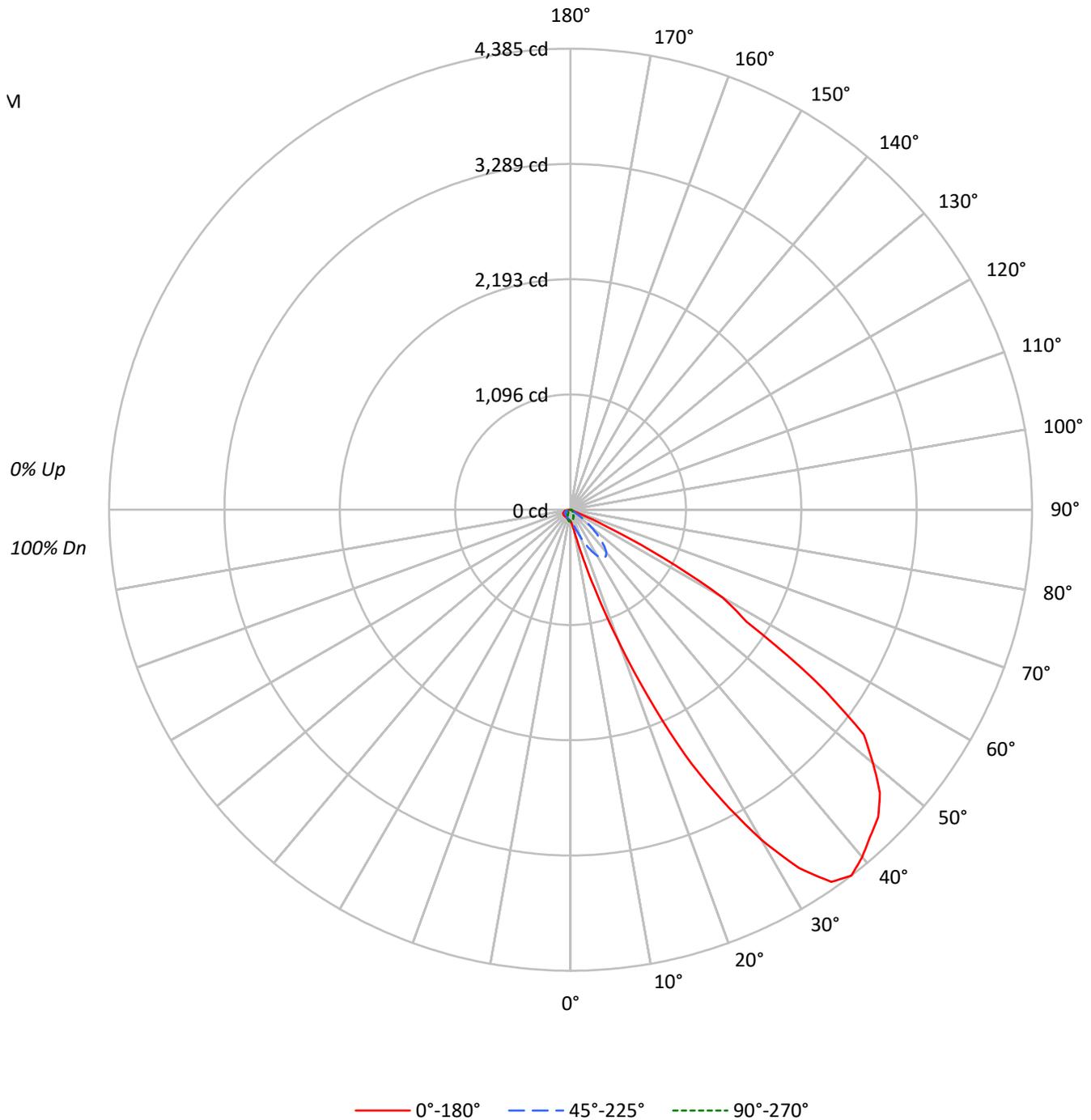
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1959.0 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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	99	107	104	100	97	99	97	94	96	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	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	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	45	43
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	38	38	38	36
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	33	33	33	31
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	28	28	28	26
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24	24	24	24	22
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	21	21	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19513	19513	19513	19513	19513
5°	23218	21541	19311	17910	17910
10°	37074	25200	18118	16981	16981
15°	92358	33770	16457	15869	16457
20°	243262	50437	14241	15139	16018
25°	488464	74737	12295	14157	15696
30°	720092	100109	9983	13841	16088
35°	908301	117401	8515	13603	16672
40°	969090	118638	7644	14186	17828
45°	1006900	98958	7088	15369	19314
50°	1005303	68965	6939	16478	21676
55°	854423	30627	7296	18466	23811
60°	574259	6131	7233	20632	27315
65°	152369	2649	7254	22413	31012
70°	4079	3273	7352	24472	35047
75°	3261	3261	7519	25818	39858
80°	3174	4860	8034	27274	44928
85°	3162	6323	12844	28850	44856

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 47.5°
 Luminance: 1032815 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.3	0.6
10°-20°	55.3	2.8
20°-30°	227.9	11.6
30°-40°	480.3	24.5
40°-50°	592.6	30.2
50°-60°	444.1	22.7
60°-70°	114.3	5.8
70°-80°	23.7	1.2
80°-90°	9.6	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°	294.4	15.0
0°-40°	774.7	39.5
0°-60°	1811.4	92.5
0°-90°	1959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1959.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	113	113	113	113	113	
5°	134	125	112	104	104	15
15°	518	189	92	89	92	189
25°	2570	393	65	74	83	1198
35°	4320	558	40	65	79	2633
45°	4134	406	29	63	79	3163
55°	2846	102	24	62	79	2457
65°	374	6	18	55	76	539
75°	5	5	11	39	60	6
85°	2	3	6	15	23	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	113.3	113.3	113.3	113.3	113.3	113.3	113.3	113.3	113.3	113.3	113.3
2.5°	119.8	119.8	119.8	119.8	119.8	119.8	119.8	118.2	116.5	113.3	110.1
5°	134.3	132.7	132.7	132.7	131.1	129.5	129.5	124.6	118.2	111.7	106.8
7.5°	158.6	158.6	157.0	153.8	152.2	148.9	145.7	132.7	118.2	108.5	102.0
10°	212.0	208.8	204.0	200.7	192.6	181.3	173.2	144.1	116.5	103.6	98.7
12.5°	317.3	323.7	307.5	291.4	268.7	247.7	221.8	163.5	116.5	98.7	93.9
15°	518.0	529.3	498.6	466.2	411.1	359.3	310.8	189.4	113.3	92.3	87.4
17.5°	846.6	861.1	809.3	733.3	647.5	543.9	454.8	225.0	110.1	85.8	82.6
20°	1327.3	1325.7	1225.3	1129.8	964.7	812.6	645.9	275.2	105.2	77.7	77.7
22.5°	1918.1	1924.6	1801.6	1630.0	1395.3	1150.9	885.4	333.4	98.7	71.2	72.8
25°	2570.5	2515.4	2369.7	2160.9	1861.5	1523.2	1173.5	393.3	92.3	64.7	68.0
27.5°	3114.3	3060.9	2894.2	2646.5	2324.4	1923.0	1466.5	453.2	84.2	58.3	63.1
30°	3621.0	3553.0	3352.3	3072.2	2688.6	2254.8	1741.7	503.4	74.5	50.2	58.3
32.5°	4038.6	3977.1	3748.8	3423.5	3005.9	2539.7	1974.8	542.3	64.7	45.3	55.0
35°	4320.2	4257.1	4046.7	3689.0	3234.1	2746.9	2164.2	558.4	56.7	40.5	53.4
37.5°	4385.0	4351.0	4200.5	3865.4	3391.1	2879.6	2285.6	553.6	46.9	37.2	50.2
40°	4310.5	4318.6	4247.4	3969.0	3475.3	2936.3	2335.7	527.7	38.8	34.0	48.6
42.5°	4215.0	4236.1	4231.2	4011.1	3510.9	2939.5	2314.7	475.9	30.8	30.8	46.9
45°	4134.1	4155.1	4184.3	3993.3	3486.6	2897.4	2248.3	406.3	22.7	29.1	46.9
47.5°	3986.8	4009.5	4051.5	3850.8	3363.6	2789.0	2128.6	330.2	16.2	27.5	45.3
50°	3752.1	3763.4	3752.1	3527.1	3127.3	2614.2	1934.3	257.4	11.3	25.9	45.3
52.5°	3510.9	3488.2	3394.4	3109.5	2751.7	2337.4	1689.9	182.9	8.1	24.3	43.7
55°	2845.6	2810.0	2740.4	2565.6	2361.6	1997.4	1366.2	102.0	8.1	24.3	42.1
57.5°	1982.9	2002.3	2026.6	1991.0	1897.1	1573.4	1037.6	45.3	8.1	22.7	42.1
60°	1667.2	1651.0	1652.7	1630.0	1474.6	1147.6	713.8	17.8	8.1	21.0	40.5
62.5°	995.5	1006.8	1027.9	1032.7	878.9	641.0	373.9	8.1	8.1	19.4	38.8
65°	373.9	391.7	343.2	297.8	236.3	173.2	87.4	6.5	9.7	17.8	35.6
67.5°	11.3	12.9	16.2	14.6	14.6	12.9	9.7	6.5	9.7	16.2	34.0
70°	8.1	8.1	8.1	8.1	8.1	6.5	6.5	6.5	8.1	14.6	30.8
72.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	8.1	12.9	27.5
75°	4.9	6.5	4.9	4.9	4.9	4.9	4.9	4.9	8.1	11.3	22.7
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.5	9.7	19.4
80°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.9	6.5	8.1	16.2
82.5°	3.2	3.2	3.2	1.6	3.2	3.2	3.2	3.2	6.5	6.5	12.9
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	4.9	6.5	8.1
87.5°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.2	4.9	4.9	4.9
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):

	135°	157.5°	180°
0°	113.3	113.3	113.3
2.5°	106.8	106.8	106.8
5°	103.6	103.6	103.6
7.5°	100.4	100.4	100.4
10°	97.1	97.1	97.1
12.5°	93.9	93.9	95.5
15°	89.0	92.3	92.3
17.5°	85.8	89.0	90.6
20°	82.6	85.8	87.4
22.5°	77.7	82.6	85.8
25°	74.5	80.9	82.6
27.5°	71.2	79.3	82.6
30°	69.6	77.7	80.9
32.5°	66.4	76.1	79.3
35°	64.7	76.1	79.3
37.5°	64.7	74.5	79.3
40°	63.1	74.5	79.3
42.5°	63.1	74.5	79.3
45°	63.1	74.5	79.3
47.5°	61.5	74.5	80.9
50°	61.5	76.1	80.9
52.5°	61.5	76.1	80.9
55°	61.5	76.1	79.3
57.5°	59.9	74.5	79.3
60°	59.9	74.5	79.3
62.5°	56.7	72.8	77.7
65°	55.0	71.2	76.1
67.5°	51.8	69.6	72.8
70°	48.6	64.7	69.6
72.5°	43.7	61.5	66.4
75°	38.8	56.7	59.9
77.5°	34.0	50.2	53.4
80°	27.5	42.1	45.3
82.5°	21.0	32.4	34.0
85°	14.6	21.0	22.7
87.5°	6.5	9.7	11.3
90°	0.0	0.0	0.0

(END OF REPORT)