

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: P1311549

Luminaire Tested: LDSQA3D13R609040DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311549
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: LDSQA3D13R609040DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

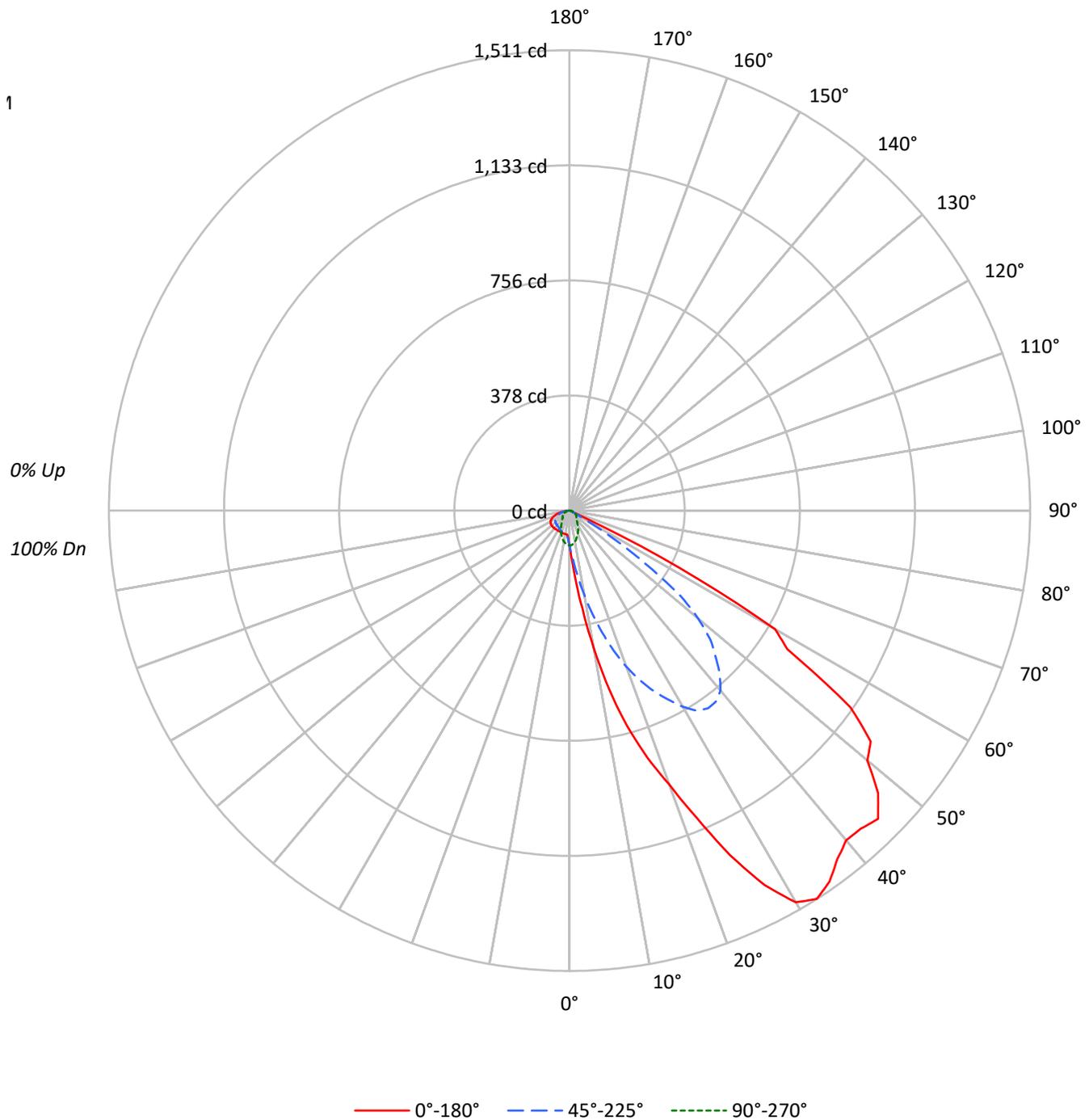
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1150.0 lumens
Efficiency: N/A
Efficacy: 78.8 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): 14.6
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	87	
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	76	74	
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	64	62	
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	53	
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	45	
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	39	
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	33	
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	31	29	
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	27	25	
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	24	22	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19616	19616	19616	19616	19616
5°	38673	30185	19345	14643	13917
10°	79885	49176	18100	13343	13536
15°	130657	73815	16207	13426	13800
20°	175303	100013	14552	13416	13984
25°	237191	124163	12713	13302	14499
30°	295196	147817	10600	13304	15173
35°	312529	166598	9020	13624	15831
40°	317514	173202	8228	14096	17154
45°	348558	164987	7891	15028	18584
50°	341692	147898	7850	15969	20443
55°	337734	90709	7837	17265	22610
60°	267910	21597	8267	18359	24490
65°	17034	3831	8110	18746	26407
70°	3676	4230	7906	19487	27896
75°	3460	4192	6987	18765	28546
80°	3075	4166	7240	18646	26977
85°	1976	4150	8299	16599	26874

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 367892 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.2	1.2
10°-20°	71.7	6.2
20°-30°	166.3	14.5
30°-40°	258.5	22.5
40°-50°	294.6	25.6
50°-60°	248.1	21.6
60°-70°	72.0	6.3
70°-80°	18.4	1.6
80°-90°	6.2	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°	252.2	21.9
0°-40°	510.7	44.4
0°-60°	1053.3	91.6
0°-90°	1150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1150.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	114	114	114	114	114	
5°	224	175	112	85	80	29
15°	733	414	91	75	77	212
25°	1248	653	67	70	76	580
35°	1486	792	43	65	75	924
45°	1431	677	32	62	76	1076
55°	1125	302	26	58	75	946
65°	42	9	20	46	65	207
75°	5	6	10	28	43	6
85°	1	2	4	8	14	2
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°	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9
2.5°	153.7	152.6	152.6	151.6	150.5	149.5	146.4	145.3	139.0	126.5	113.9
5°	223.7	222.7	219.5	218.5	213.3	205.9	198.6	191.3	174.6	139.0	111.9
7.5°	324.1	326.2	324.1	312.6	305.2	293.7	271.8	256.1	222.7	151.6	107.7
10°	456.8	456.8	453.7	435.9	420.2	398.3	370.1	342.9	281.2	163.1	103.5
12.5°	601.1	604.2	588.5	573.9	545.7	518.5	479.8	439.1	348.1	172.5	98.3
15°	732.8	730.7	715.0	696.2	666.9	629.3	588.5	536.3	414.0	178.8	90.9
17.5°	849.9	845.7	832.1	811.2	775.7	733.8	681.6	625.1	481.9	184.0	85.7
20°	956.5	941.9	926.2	904.2	869.7	825.8	771.5	707.7	545.7	184.0	79.4
22.5°	1091.4	1076.7	1054.8	1021.3	975.3	921.0	857.2	785.1	602.1	179.8	73.2
25°	1248.2	1236.7	1199.0	1156.2	1096.6	1031.8	957.6	860.3	653.4	173.5	66.9
27.5°	1385.1	1372.6	1334.9	1272.2	1200.1	1122.7	1044.3	945.0	698.3	162.0	59.6
30°	1484.4	1468.7	1439.5	1379.9	1292.1	1198.0	1105.0	1009.8	743.3	148.4	53.3
32.5°	1510.6	1508.5	1486.5	1442.6	1364.2	1260.7	1149.9	1046.4	778.8	130.7	48.1
35°	1486.5	1489.6	1485.5	1463.5	1406.0	1304.6	1179.2	1066.3	792.4	112.9	42.9
37.5°	1442.6	1446.8	1454.1	1457.2	1420.7	1330.7	1195.9	1074.6	789.3	95.1	39.7
40°	1412.3	1410.2	1410.2	1431.1	1423.8	1342.2	1198.0	1068.4	770.4	76.3	36.6
42.5°	1415.4	1392.4	1376.7	1410.2	1420.7	1337.0	1184.4	1051.6	729.7	58.5	33.5
45°	1431.1	1382.0	1354.8	1397.7	1414.4	1319.3	1159.3	1026.5	677.4	40.8	32.4
47.5°	1372.6	1340.2	1336.0	1396.6	1402.9	1288.9	1120.6	986.8	627.2	28.2	30.3
50°	1275.3	1270.1	1292.1	1354.8	1355.8	1238.8	1076.7	914.7	552.0	19.9	29.3
52.5°	1245.0	1248.2	1268.0	1300.4	1270.1	1154.1	997.3	854.1	456.8	15.7	28.2
55°	1124.8	1130.0	1148.9	1168.7	1146.8	1050.6	901.1	780.9	302.1	14.6	26.1
57.5°	846.7	860.3	894.8	912.6	914.7	856.2	816.4	673.2	170.4	14.6	25.1
60°	777.8	760.0	744.3	707.7	674.3	666.9	671.1	504.9	62.7	13.6	24.0
62.5°	406.6	398.3	422.3	438.0	442.2	465.2	434.9	266.6	13.6	13.6	22.0
65°	41.8	41.8	51.2	67.9	112.9	150.5	143.2	77.4	9.4	12.5	19.9
67.5°	12.5	12.5	12.5	14.6	18.8	18.8	15.7	11.5	9.4	11.5	17.8
70°	7.3	7.3	7.3	7.3	7.3	7.3	8.4	7.3	8.4	10.5	15.7
72.5°	6.3	6.3	6.3	6.3	7.3	7.3	7.3	7.3	7.3	9.4	13.6
75°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	6.3	6.3	7.3	10.5
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	5.2	5.2	5.2	6.3	8.4
80°	3.1	3.1	3.1	3.1	3.1	4.2	4.2	4.2	4.2	5.2	7.3
82.5°	2.1	2.1	2.1	2.1	3.1	3.1	3.1	3.1	3.1	4.2	5.2
85°	1.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1	4.2
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	3.1
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°	113.9	113.9	113.9	113.9
2.5°	103.5	96.2	92.0	89.9
5°	94.1	84.7	81.5	80.5
7.5°	85.7	79.4	78.4	78.4
10°	80.5	76.3	77.4	77.4
12.5°	77.4	76.3	77.4	78.4
15°	74.2	75.3	77.4	77.4
17.5°	72.1	74.2	76.3	77.4
20°	69.0	73.2	76.3	76.3
22.5°	66.9	72.1	75.3	76.3
25°	64.8	70.0	74.2	76.3
27.5°	61.7	69.0	74.2	75.3
30°	58.5	66.9	73.2	76.3
32.5°	55.4	65.9	73.2	75.3
35°	53.3	64.8	73.2	75.3
37.5°	51.2	63.8	73.2	76.3
40°	50.2	62.7	72.1	76.3
42.5°	48.1	62.7	72.1	76.3
45°	47.0	61.7	72.1	76.3
47.5°	46.0	60.6	72.1	76.3
50°	43.9	59.6	71.1	76.3
52.5°	42.9	58.5	71.1	76.3
55°	40.8	57.5	70.0	75.3
57.5°	39.7	55.4	69.0	73.2
60°	37.6	53.3	66.9	71.1
62.5°	34.5	50.2	63.8	69.0
65°	31.4	46.0	60.6	64.8
67.5°	28.2	42.9	56.4	60.6
70°	25.1	38.7	51.2	55.4
72.5°	22.0	33.5	46.0	49.1
75°	18.8	28.2	38.7	42.9
77.5°	14.6	23.0	32.4	35.5
80°	11.5	18.8	25.1	27.2
82.5°	9.4	13.6	18.8	19.9
85°	6.3	8.4	11.5	13.6
87.5°	3.1	4.2	5.2	6.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)