

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: P1310429

Luminaire Tested: LDSQA3D13R609035DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310429  
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: LDSQA3D13R609035DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

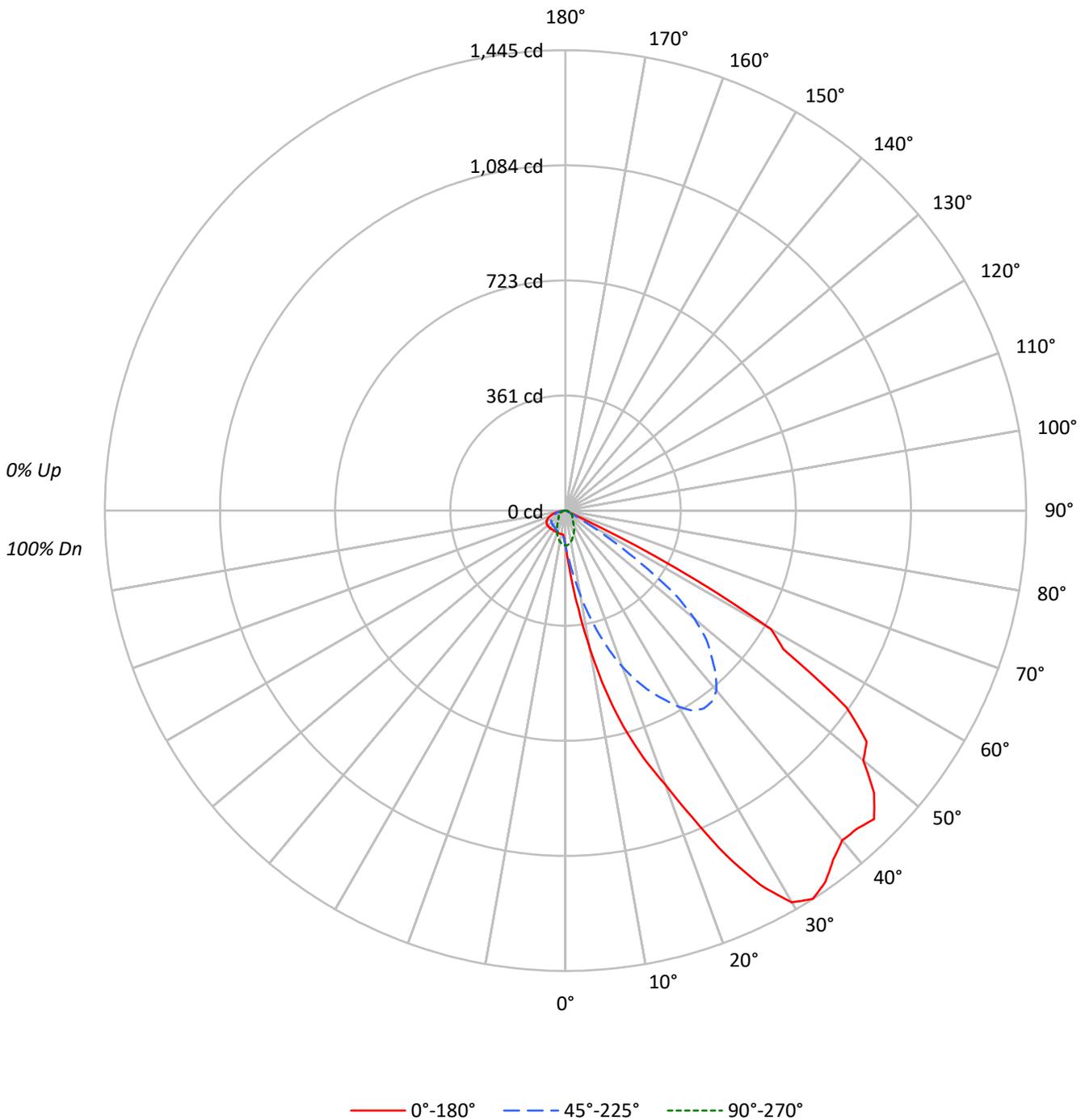
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1100.0 lumens  
Efficiency: N/A  
Efficacy: 75.3 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 (A<sub>in</sub>): 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°	18772	18772	18772	18772	18772
5°	36996	28871	18498	14003	13312
10°	76422	47043	17313	12766	12941
15°	124969	70606	15512	12837	13194
20°	167679	95670	13929	12829	13379
25°	226873	118748	12162	12732	13872
30°	282369	141374	10142	12727	14517
35°	298947	159345	8620	13035	15138
40°	303710	165670	7869	13489	16412
45°	333409	157802	7550	14370	17780
50°	326849	141467	7502	15272	19559
55°	323051	86775	7507	16514	21619
60°	256233	20667	7922	17567	23422
65°	16301	3668	7743	17931	25266
70°	3525	4028	7553	18631	26688
75°	3327	3993	6654	17966	27282
80°	2975	3967	6943	17852	25787
85°	1976	3952	7904	15808	25688

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 52.5°  
 Luminance: 351908 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.6	1.2
10°-20°	68.6	6.2
20°-30°	159.1	14.5
30°-40°	247.3	22.5
40°-50°	281.7	25.6
50°-60°	237.3	21.6
60°-70°	68.9	6.3
70°-80°	17.6	1.6
80°-90°	6.0	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°	241.2	21.9
0°-40°	488.5	44.4
0°-60°	1007.6	91.6
0°-90°	1100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1100.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	109	109	109	109	109	
5°	214	167	107	81	77	27
15°	701	396	87	72	74	203
25°	1194	625	64	67	73	554
35°	1422	758	41	62	72	883
45°	1369	648	31	59	73	1029
55°	1076	289	25	55	72	905
65°	40	9	19	44	62	198
75°	5	6	10	27	41	5
85°	1	2	4	8	13	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°	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0	109.0
2.5°	147.0	146.0	146.0	145.0	144.0	143.0	140.0	139.0	133.0	121.0	109.0
5°	214.0	213.0	210.0	209.0	204.0	197.0	190.0	183.0	167.0	133.0	107.0
7.5°	310.0	312.0	310.0	299.0	292.0	281.0	260.0	245.0	213.0	145.0	103.0
10°	437.0	437.0	434.0	417.0	402.0	381.0	354.0	328.0	269.0	156.0	99.0
12.5°	575.0	578.0	563.0	549.0	522.0	496.0	459.0	420.0	333.0	165.0	94.0
15°	700.9	698.9	683.9	665.9	637.9	601.9	563.0	513.0	396.0	171.0	87.0
17.5°	812.9	808.9	795.9	775.9	741.9	701.9	651.9	597.9	461.0	176.0	82.0
20°	914.9	900.9	885.9	864.9	831.9	789.9	737.9	676.9	522.0	176.0	76.0
22.5°	1043.9	1029.9	1008.9	976.9	932.9	880.9	819.9	750.9	576.0	172.0	70.0
25°	1193.9	1182.9	1146.9	1105.9	1048.9	986.9	915.9	822.9	624.9	166.0	64.0
27.5°	1324.9	1312.9	1276.9	1216.9	1147.9	1073.9	998.9	903.9	667.9	155.0	57.0
30°	1419.9	1404.9	1376.9	1319.9	1235.9	1145.9	1056.9	965.9	710.9	142.0	51.0
32.5°	1444.9	1442.9	1421.9	1379.9	1304.9	1205.9	1099.9	1000.9	744.9	125.0	46.0
35°	1421.9	1424.9	1420.9	1399.9	1344.9	1247.9	1127.9	1019.9	757.9	108.0	41.0
37.5°	1379.9	1383.9	1390.9	1393.9	1358.9	1272.9	1143.9	1027.9	754.9	91.0	38.0
40°	1350.9	1348.9	1348.9	1368.9	1361.9	1283.9	1145.9	1021.9	736.9	73.0	35.0
42.5°	1353.9	1331.9	1316.9	1348.9	1358.9	1278.9	1132.9	1005.9	697.9	56.0	32.0
45°	1368.9	1321.9	1295.9	1336.9	1352.9	1261.9	1108.9	981.9	647.9	39.0	31.0
47.5°	1312.9	1281.9	1277.9	1335.9	1341.9	1232.9	1071.9	943.9	599.9	27.0	29.0
50°	1219.9	1214.9	1235.9	1295.9	1296.9	1184.9	1029.9	874.9	528.0	19.0	28.0
52.5°	1190.9	1193.9	1212.9	1243.9	1214.9	1103.9	953.9	816.9	437.0	15.0	27.0
55°	1075.9	1080.9	1098.9	1117.9	1096.9	1004.9	861.9	746.9	289.0	14.0	25.0
57.5°	809.9	822.9	855.9	872.9	874.9	818.9	780.9	643.9	163.0	14.0	24.0
60°	743.9	726.9	711.9	676.9	644.9	637.9	641.9	483.0	60.0	13.0	23.0
62.5°	389.0	381.0	404.0	419.0	423.0	445.0	416.0	255.0	13.0	13.0	21.0
65°	40.0	40.0	49.0	65.0	108.0	144.0	137.0	74.0	9.0	12.0	19.0
67.5°	12.0	12.0	12.0	14.0	18.0	18.0	15.0	11.0	9.0	11.0	17.0
70°	7.0	7.0	7.0	7.0	7.0	7.0	8.0	7.0	8.0	10.0	15.0
72.5°	6.0	6.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0	9.0	13.0
75°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.0	6.0	7.0	10.0
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	6.0	8.0
80°	3.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0	4.0	5.0	7.0
82.5°	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	4.0	5.0
85°	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	4.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	3.0
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°	109.0	109.0	109.0	109.0
2.5°	99.0	92.0	88.0	86.0
5°	90.0	81.0	78.0	77.0
7.5°	82.0	76.0	75.0	75.0
10°	77.0	73.0	74.0	74.0
12.5°	74.0	73.0	74.0	75.0
15°	71.0	72.0	74.0	74.0
17.5°	69.0	71.0	73.0	74.0
20°	66.0	70.0	73.0	73.0
22.5°	64.0	69.0	72.0	73.0
25°	62.0	67.0	71.0	73.0
27.5°	59.0	66.0	71.0	72.0
30°	56.0	64.0	70.0	73.0
32.5°	53.0	63.0	70.0	72.0
35°	51.0	62.0	70.0	72.0
37.5°	49.0	61.0	70.0	73.0
40°	48.0	60.0	69.0	73.0
42.5°	46.0	60.0	69.0	73.0
45°	45.0	59.0	69.0	73.0
47.5°	44.0	58.0	69.0	73.0
50°	42.0	57.0	68.0	73.0
52.5°	41.0	56.0	68.0	73.0
55°	39.0	55.0	67.0	72.0
57.5°	38.0	53.0	66.0	70.0
60°	36.0	51.0	64.0	68.0
62.5°	33.0	48.0	61.0	66.0
65°	30.0	44.0	58.0	62.0
67.5°	27.0	41.0	54.0	58.0
70°	24.0	37.0	49.0	53.0
72.5°	21.0	32.0	44.0	47.0
75°	18.0	27.0	37.0	41.0
77.5°	14.0	22.0	31.0	34.0
80°	11.0	18.0	24.0	26.0
82.5°	9.0	13.0	18.0	19.0
85°	6.0	8.0	11.0	13.0
87.5°	3.0	4.0	5.0	6.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)