

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: P1318099

Luminaire Tested: LDSQA3D05R459830DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318099  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R459830DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

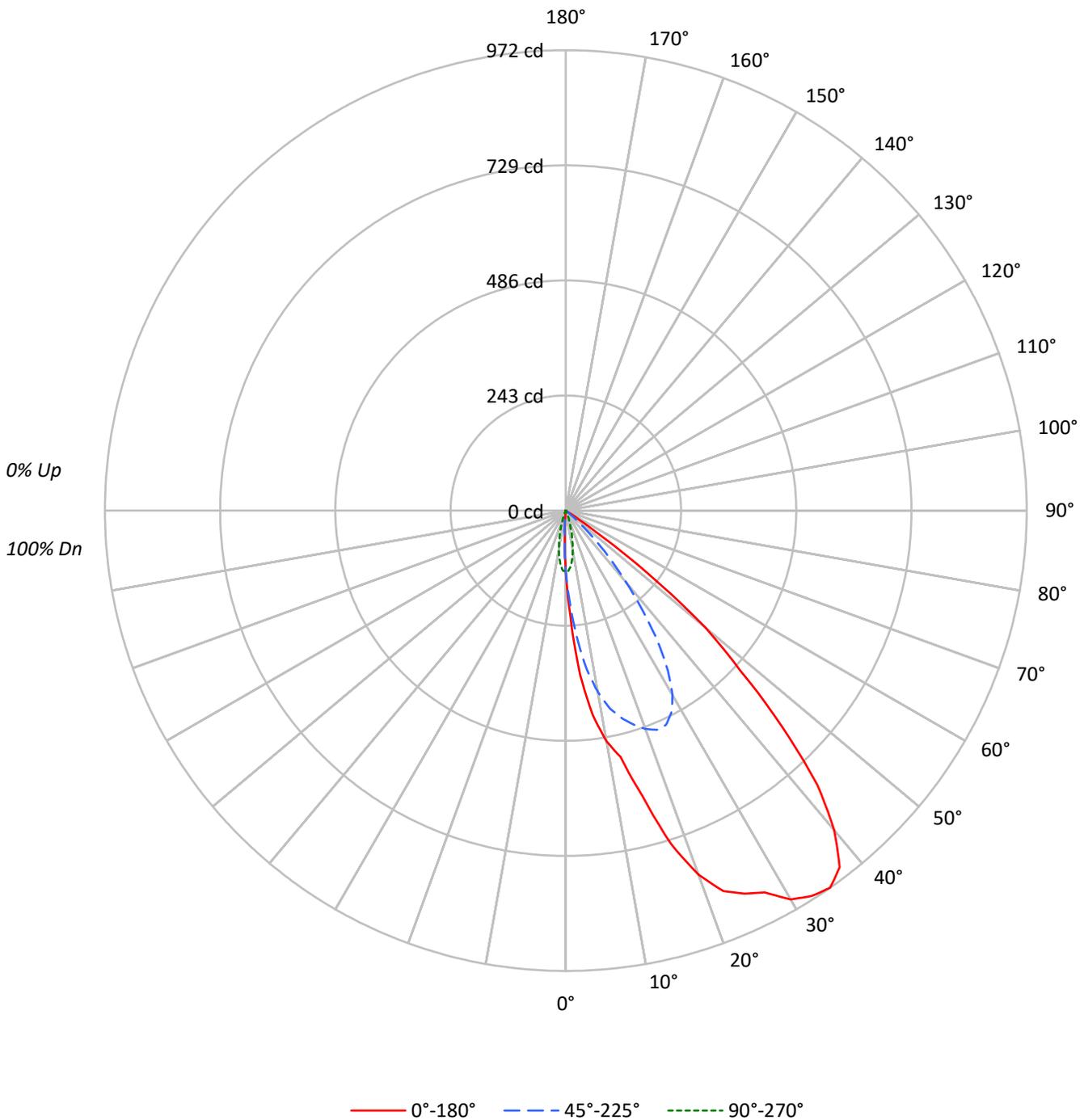
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 412.0 lumens  
Efficiency: N/A  
Efficacy: 57.2 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.26  
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				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	100	100	100	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91	91	91	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82	82	82	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74	74	74	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67	67	67	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60	60	60	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54	54	54	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49	49	49	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44	44	44	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37	37	37	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	22044	22044	22044	22044	22044
5°	60162	46280	20400	4097	1539
10°	86408	67906	14742	385	315
15°	111240	80769	7845	125	0
20°	149919	89878	2987	0	0
25°	169580	94937	779	0	0
30°	188485	89509	80	0	0
35°	204337	71378	0	0	0
40°	198045	44807	0	0	0
45°	156999	21336	0	0	0
50°	102751	2679	0	0	0
55°	17655	0	0	0	0
60°	0	0	138	0	0
65°	0	163	163	0	0
70°	0	201	352	0	0
75°	0	266	466	0	0
80°	0	397	694	397	0
85°	0	790	1383	790	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 156999 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.2	3.7
10°-20°	58.7	14.2
20°-30°	109.9	26.7
30°-40°	128.2	31.1
40°-50°	83.6	20.3
50°-60°	15.5	3.8
60°-70°	0.2	0.0
70°-80°	0.3	0.1
80°-90°	0.3	0.1
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°	183.8	44.6
0°-40°	312.1	75.7
0°-60°	411.2	99.8
0°-90°	412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	412.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	128	128	128	128	128	
5°	348	268	118	24	9	37
15°	624	453	44	1	0	186
25°	892	500	4	0	0	413
35°	972	340	0	0	0	596
45°	645	88	0	0	0	490
55°	59	0	0	0	0	102
65°	0	0	0	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	128.0	128.0	128.0	128.0	128.0	128.0	128.0	128.0	128.0	128.0	128.0
2.5°	225.6	227.4	223.7	222.3	217.5	218.6	210.4	207.1	201.9	193.4	189.3
5°	348.0	344.7	341.7	335.4	331.7	321.7	310.6	298.1	282.9	267.7	250.4
7.5°	435.3	432.7	431.6	426.4	419.0	408.6	394.2	378.3	358.7	338.4	312.1
10°	494.1	491.5	487.0	481.9	476.0	467.4	453.4	436.0	414.6	388.3	357.6
12.5°	532.5	532.2	524.8	518.9	511.5	504.1	489.6	475.6	454.5	427.5	392.7
15°	623.9	618.0	608.3	591.7	571.0	551.8	528.5	506.3	483.3	453.0	414.2
17.5°	737.8	731.1	714.9	693.8	660.5	623.9	583.9	548.8	514.4	473.4	427.5
20°	818.0	815.4	801.8	777.4	741.9	693.4	640.9	591.3	542.9	490.4	433.8
22.5°	869.4	868.0	862.4	845.8	809.5	755.2	687.5	620.9	562.5	501.1	431.9
25°	892.4	894.2	895.0	886.8	857.6	802.1	721.9	643.5	573.6	499.6	417.9
27.5°	908.6	908.6	911.6	907.9	878.3	819.9	735.2	651.2	569.9	481.5	388.3
30°	947.8	947.1	948.9	939.0	897.9	825.4	729.3	638.7	548.8	450.1	345.8
32.5°	964.8	965.6	965.2	949.3	901.6	821.7	714.9	614.6	510.0	400.9	289.6
35°	971.9	968.5	954.9	918.6	858.3	772.5	674.2	574.0	455.6	339.5	228.5
37.5°	948.6	939.0	908.6	859.1	785.5	703.0	606.9	501.1	383.5	266.3	172.0
40°	880.9	868.3	830.2	770.3	703.0	628.7	527.4	415.7	299.9	199.3	120.6
42.5°	785.1	770.7	729.6	677.5	616.1	538.1	437.1	325.4	219.7	137.6	76.6
45°	644.6	636.5	612.8	568.8	508.5	427.5	335.1	237.4	152.0	87.6	39.2
47.5°	498.5	488.2	471.1	440.8	390.5	313.6	234.5	161.2	97.6	43.3	8.1
50°	383.5	371.3	350.6	316.9	264.4	209.3	152.0	100.6	49.6	10.0	0.4
52.5°	220.8	223.4	213.4	191.9	162.7	125.4	88.0	50.7	11.1	0.4	0.0
55°	58.8	63.6	62.1	66.9	58.8	49.6	36.6	9.6	0.7	0.0	0.0
57.5°	0.0	0.0	0.4	0.7	2.2	3.3	1.1	0.4	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	128.0	128.0	128.0	128.0	128.0	128.0	128.0	128.0
2.5°	180.1	172.3	162.7	127.2	95.8	68.8	53.6	49.6
5°	233.7	214.9	190.5	118.0	59.2	23.7	10.7	8.9
7.5°	284.4	256.7	212.6	103.2	30.0	5.9	3.0	2.6
10°	323.6	286.2	228.9	84.3	11.1	2.2	1.8	1.8
12.5°	350.6	305.1	234.8	64.0	4.1	1.1	1.1	0.7
15°	366.1	312.5	229.3	44.0	1.5	0.7	0.0	0.0
17.5°	370.9	309.5	214.5	27.7	0.4	0.0	0.0	0.0
20°	366.9	295.1	191.2	16.3	0.0	0.0	0.0	0.0
22.5°	353.5	272.6	163.1	8.9	0.0	0.0	0.0	0.0
25°	328.8	240.8	130.2	4.1	0.0	0.0	0.0	0.0
27.5°	288.5	199.7	98.0	1.5	0.0	0.0	0.0	0.0
30°	242.6	155.7	69.5	0.4	0.0	0.0	0.0	0.0
32.5°	189.3	114.6	44.7	0.0	0.0	0.0	0.0	0.0
35°	142.4	80.3	26.6	0.0	0.0	0.0	0.0	0.0
37.5°	99.1	50.7	14.1	0.0	0.0	0.0	0.0	0.0
40°	61.8	27.4	4.8	0.0	0.0	0.0	0.0	0.0
42.5°	34.4	9.6	0.4	0.0	0.0	0.0	0.0	0.0
45°	8.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
60°	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0
62.5°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
65°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
67.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
70°	0.4	0.4	0.4	0.7	0.4	0.0	0.0	0.0
72.5°	0.4	0.4	0.7	0.7	0.4	0.0	0.0	0.0
75°	0.4	0.4	0.7	0.7	0.4	0.0	0.0	0.0
77.5°	0.4	0.7	0.7	0.7	0.4	0.4	0.0	0.0
80°	0.4	0.7	0.7	0.7	0.7	0.4	0.0	0.0
82.5°	0.4	0.7	0.7	0.7	0.7	0.4	0.0	0.0
85°	0.4	0.7	0.7	0.7	0.4	0.4	0.0	0.0
87.5°	0.4	0.7	0.7	0.7	0.7	0.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)