

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: P1307453

Luminaire Tested: LDSQA3D20R309024D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

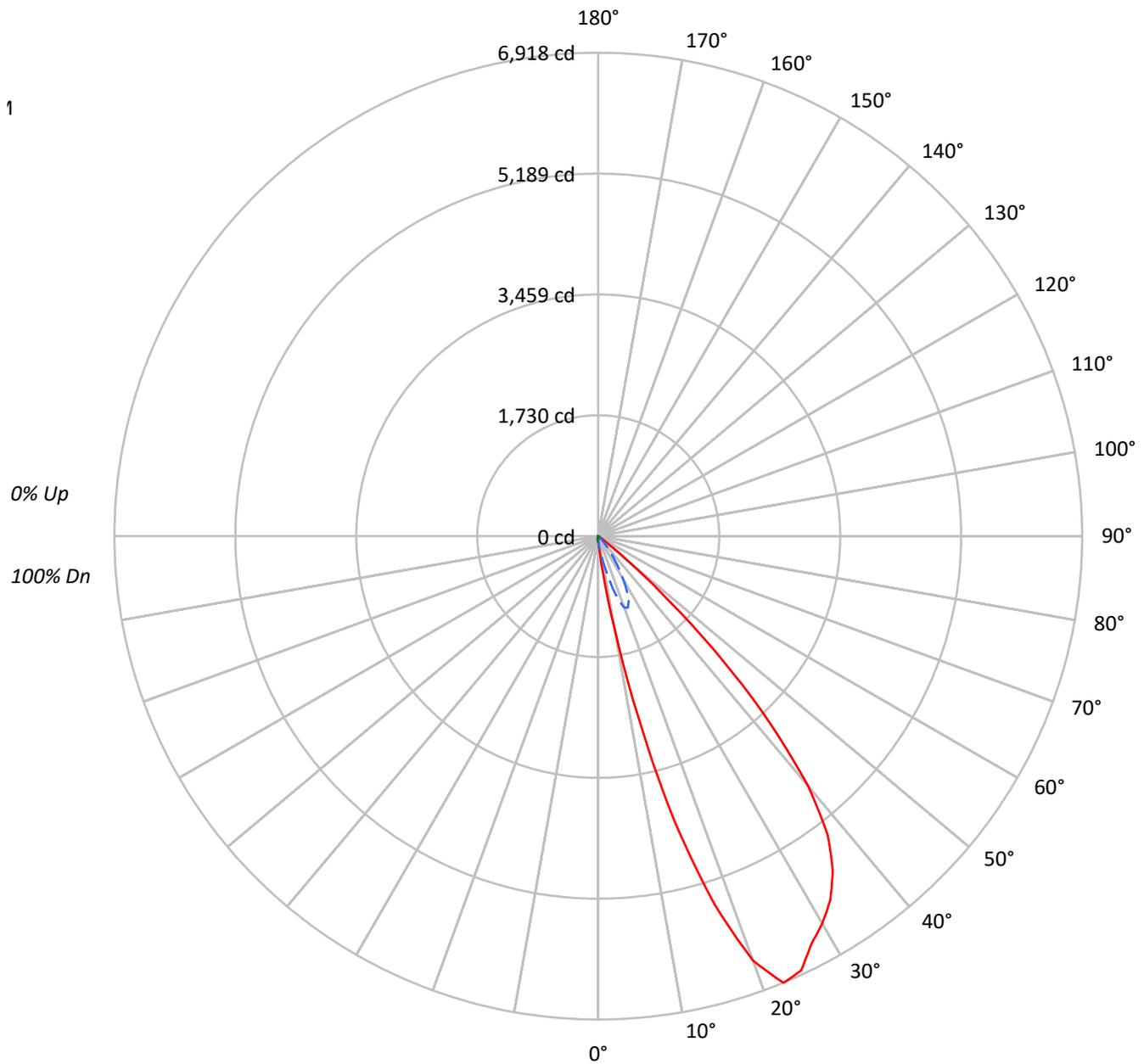
Test Method: LM-79-2019  
Report Number: P1307453  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R309024D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1631.1 lumens  
Efficiency: N/A  
Efficacy: 56.6 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 28.8  
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

TEST NUMBER: P1307453  
CATALOG NUMBER: LDSQA3D20R309024D010 3LSQCA30R 1MW

### Luminous Intensity Polar Plot



— 0°-180°    - - - 45°-225°    - - - - 90°-270°



TEST NUMBER: P1307453

CATALOG NUMBER: LDSQA3D20R309024D010 3LSQCA30R 1MW

**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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83
3	99	92	86	81	97	90	85	81	87	83	79	85	81	78	83	79	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

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

	0°	45°	90°	135°	180°
0°	13347	13347	13347	13347	13347
5°	40195	26796	12620	5670	4633
10°	232747	56818	9898	2606	1819
15°	757053	128874	6900	535	267
20°	1184638	199404	4362	0	0
25°	1303317	194853	2261	0	0
30°	1272958	140479	895	0	0
35°	1228609	79893	315	0	0
40°	1047754	33836	0	0	0
45°	614915	12714	365	0	365
50°	149345	2385	402	402	1206
55°	12971	0	901	1351	1802
60°	517	0	1033	1550	2583
65°	611	611	1834	1834	3056
70°	755	755	2266	2266	3021
75°	0	998	2994	2994	2994
80°	0	1488	4463	2975	2975
85°	0	2964	8892	2964	2964

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 614915 cd/sqm



TEST NUMBER: P1307453

CATALOG NUMBER: LDSQA3D20R309024D010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.2	0.9
10°-20°	224.2	13.7
20°-30°	569.7	34.9
30°-40°	567.8	34.8
40°-50°	230.0	14.1
50°-60°	15.9	1.0
60°-70°	3.6	0.2
70°-80°	3.6	0.2
80°-90°	2.1	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°	808.1	49.5
0°-40°	1375.8	84.4
0°-60°	1621.8	99.4
0°-90°	1631.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1631.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	78	78	78	78	78	
5°	232	155	73	33	27	54
15°	4246	723	39	3	2	1236
25°	6859	1025	12	0	0	3097
35°	5844	380	2	0	0	3582
45°	2525	52	2	0	2	1926
55°	43	0	3	4	6	113
65°	2	2	4	4	8	1
75°	0	2	4	4	4	1
85°	0	2	4	2	2	0
90°	0	0	0	0	0	



TEST NUMBER: P1307453  
 CATALOG NUMBER: LDSQA3D20R309024D010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
2.5°	128.2	129.7	129.7	126.7	125.2	125.2	120.7	119.2	114.8	110.3	95.4
5°	232.5	228.0	222.1	222.1	208.7	201.2	190.8	178.8	169.9	155.0	110.3
7.5°	527.6	491.8	481.4	468.0	417.3	377.1	330.9	290.6	253.4	222.1	122.2
10°	1330.9	1260.8	1202.7	1085.0	937.4	795.9	664.7	512.7	408.4	324.9	131.2
12.5°	2681.2	2587.3	2475.5	2260.9	1985.2	1631.9	1319.0	985.1	691.5	478.4	134.1
15°	4246.0	4086.6	3912.2	3639.5	3187.9	2681.2	2116.3	1584.3	1110.3	722.8	131.2
17.5°	5521.8	5459.2	5201.4	4828.8	4275.8	3623.1	2927.1	2199.8	1497.8	946.4	122.2
20°	6463.7	6420.5	6109.0	5712.6	5089.6	4341.4	3457.6	2584.3	1767.6	1088.0	108.8
22.5°	6918.3	6910.8	6685.8	6280.4	5620.1	4772.1	3798.9	2806.3	1851.0	1107.3	90.9
25°	6858.6	6885.5	6757.3	6456.2	5822.8	4949.5	3900.3	2806.3	1789.9	1025.4	76.0
27.5°	6587.4	6605.3	6524.8	6293.8	5703.6	4821.3	3758.7	2626.0	1612.6	880.8	62.6
30°	6401.1	6408.6	6308.7	6061.3	5435.3	4529.2	3424.8	2292.2	1344.3	706.4	46.2
32.5°	6174.6	6173.1	6056.8	5773.7	5083.6	4119.4	3001.6	1894.2	1032.8	536.5	26.8
35°	5843.7	5806.4	5648.5	5322.1	4559.0	3567.9	2460.6	1442.7	743.7	380.0	16.4
37.5°	5389.1	5292.3	5068.7	4632.0	3822.8	2797.4	1824.2	1013.4	508.2	251.9	10.4
40°	4660.4	4557.5	4253.5	3722.9	2891.3	2013.5	1229.5	660.2	320.4	150.5	6.0
42.5°	3654.4	3584.3	3174.5	2645.4	1909.2	1284.7	739.2	390.5	180.3	86.4	1.5
45°	2524.7	2433.8	2111.8	1663.2	1146.1	712.4	414.3	204.2	102.8	52.2	0.0
47.5°	1393.5	1281.7	1095.4	861.4	576.8	374.1	208.7	110.3	58.1	25.3	0.0
50°	557.4	552.9	439.7	313.0	220.6	169.9	104.3	59.6	29.8	8.9	1.5
52.5°	195.2	195.2	168.4	137.1	107.3	77.5	52.2	28.3	10.4	3.0	1.5
55°	43.2	47.7	44.7	41.7	40.2	34.3	22.4	10.4	3.0	0.0	1.5
57.5°	4.5	4.5	4.5	6.0	7.5	7.5	6.0	3.0	0.0	0.0	1.5
60°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	3.0
62.5°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	1.5	1.5	3.0
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0
67.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	4.5
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	4.5
75°	0.0	0.0	1.5	1.5	0.0	1.5	1.5	1.5	1.5	1.5	4.5
77.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	3.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	3.0
82.5°	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	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



TEST NUMBER: P1307453

CATALOG NUMBER: LDSQA3D20R309024D010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	90°	112.5°	135°	157.5°	180°
0°	77.5	77.5	77.5	77.5	77.5
2.5°	77.5	61.1	50.7	44.7	43.2
5°	73.0	46.2	32.8	28.3	26.8
7.5°	65.6	34.3	22.4	17.9	16.4
10°	56.6	25.3	14.9	10.4	10.4
12.5°	47.7	19.4	8.9	4.5	3.0
15°	38.7	11.9	3.0	1.5	1.5
17.5°	29.8	7.5	0.0	0.0	0.0
20°	23.8	3.0	0.0	0.0	0.0
22.5°	17.9	1.5	0.0	0.0	0.0
25°	11.9	0.0	0.0	0.0	0.0
27.5°	7.5	0.0	0.0	0.0	0.0
30°	4.5	0.0	0.0	0.0	0.0
32.5°	1.5	0.0	0.0	0.0	0.0
35°	1.5	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	1.5	0.0	0.0	1.5	1.5
47.5°	1.5	1.5	1.5	3.0	3.0
50°	1.5	1.5	1.5	3.0	4.5
52.5°	3.0	1.5	3.0	4.5	4.5
55°	3.0	3.0	4.5	6.0	6.0
57.5°	3.0	3.0	4.5	6.0	6.0
60°	3.0	3.0	4.5	6.0	7.5
62.5°	4.5	4.5	4.5	6.0	6.0
65°	4.5	4.5	4.5	6.0	7.5
67.5°	4.5	4.5	4.5	6.0	7.5
70°	4.5	4.5	4.5	6.0	6.0
72.5°	6.0	4.5	4.5	6.0	6.0
75°	4.5	4.5	4.5	4.5	4.5
77.5°	4.5	4.5	3.0	4.5	4.5
80°	4.5	3.0	3.0	3.0	3.0
82.5°	4.5	3.0	3.0	3.0	3.0
85°	4.5	3.0	1.5	1.5	1.5
87.5°	4.5	3.0	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)