

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: CORELITE

Report Number: P688659

Luminaire Tested: SQ4R-PC3-075D-92765-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PC3-075D-92765-1-UNV-STD-W-4_3500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2888.4 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

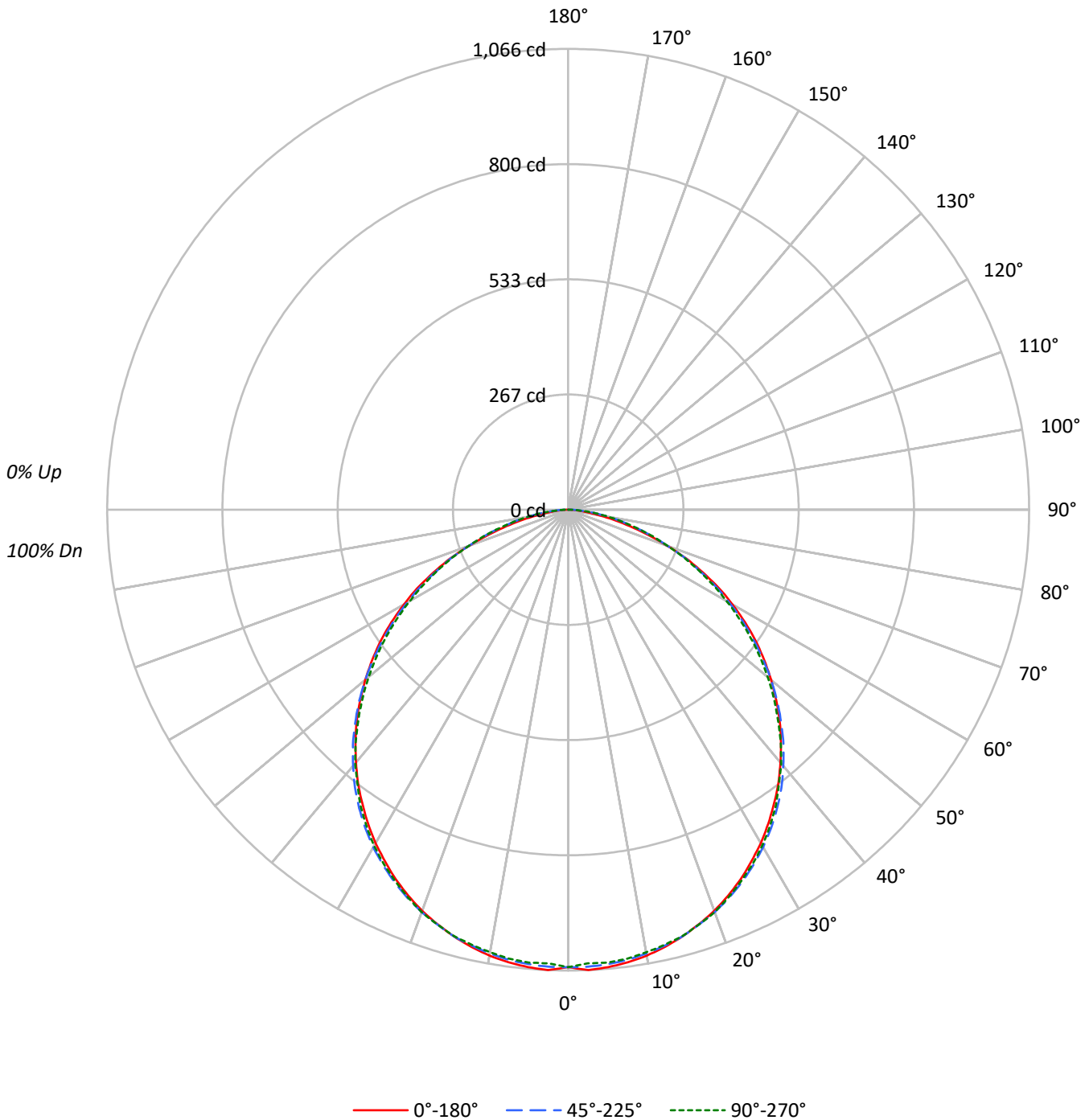
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51					51			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44					44			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39					39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10188	10188	10188
5°	10264	10198	10160
10°	10239	10191	10162
15°	10185	10185	10175
20°	10118	10149	10149
25°	10022	10096	10064
30°	9901	10021	9977
35°	9754	9903	9834
40°	9592	9727	9629
45°	9418	9484	9337
50°	9172	9172	9025
55°	8881	8765	8634
60°	8451	8281	8151
65°	7811	7656	7588
70°	6840	6894	6868
75°	5501	6085	6123
80°	3909	5162	5217
85°	2386	4330	4330

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 9484 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	3.5
10°-20°	287.5	10.0
20°-30°	435.4	15.1
30°-40°	522.1	18.1
40°-50°	532.3	18.4
50°-60°	464.6	16.1
60°-70°	332.6	11.5
70°-80°	170.9	5.9
80°-90°	42.7	1.5
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°	823.2	28.5
0°-40°	1345.2	46.6
0°-60°	2342.2	81.1
0°-90°	2888.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2888.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1062	1051	1055	1052	1051	101
15°	1022	1013	1022	1022	1021	288
25°	944	937	950	947	947	434
35°	830	828	843	837	837	519
45°	692	690	697	688	686	533
55°	529	522	522	514	514	472
65°	343	335	336	333	333	340
75°	148	155	164	165	165	159
85°	22	33	39	40	39	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.2	1058.2	1058.2	1058.2	1058.2
2.5°	1066.0	1054.2	1058.2	1055.2	1050.3
5°	1062.1	1051.3	1055.2	1052.3	1051.3
7.5°	1056.2	1045.4	1050.3	1048.4	1047.4
10°	1047.4	1036.6	1042.5	1040.5	1039.5
12.5°	1035.6	1025.8	1032.7	1030.7	1030.7
15°	1021.9	1013.1	1021.9	1021.9	1020.9
17.5°	1005.2	997.4	1006.2	1007.2	1006.2
20°	987.6	978.8	990.6	989.6	990.6
22.5°	966.1	959.2	971.9	969.0	970.0
25°	943.5	936.7	950.4	947.4	947.4
27.5°	917.1	912.2	926.9	923.9	923.9
30°	890.6	885.7	901.4	897.5	897.5
32.5°	861.2	858.3	873.0	868.1	868.1
35°	829.9	827.9	842.6	836.7	836.7
37.5°	798.5	796.6	810.3	803.4	800.5
40°	763.2	762.3	774.0	766.2	766.2
42.5°	728.0	727.0	736.8	727.0	727.0
45°	691.7	689.8	696.6	687.8	685.8
47.5°	652.5	650.6	655.5	645.7	644.7
50°	612.4	610.4	612.4	603.5	602.6
52.5°	571.2	567.3	567.3	558.5	558.5
55°	529.1	522.2	522.2	514.4	514.4
57.5°	485.0	476.2	477.1	470.3	469.3
60°	438.9	429.1	430.1	424.2	423.3
62.5°	393.9	382.1	385.1	378.2	378.2
65°	342.9	335.1	336.1	333.1	333.1
67.5°	295.9	288.1	293.0	290.0	290.0
70°	243.0	238.1	244.9	244.9	244.0
72.5°	194.0	195.0	203.8	203.8	204.8
75°	147.9	154.8	163.6	164.6	164.6
77.5°	105.8	117.6	127.4	127.4	127.4
80°	70.5	84.3	93.1	95.0	94.1
82.5°	42.1	56.8	63.7	65.6	64.7
85°	21.6	33.3	39.2	40.2	39.2
87.5°	7.8	16.7	19.6	19.6	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)