

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: P688470

Luminaire Tested: SQ4R-PC3-075D-830-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688470
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-830-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2884.3 lumens
Efficiency: N/A
Efficacy: 107.6 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

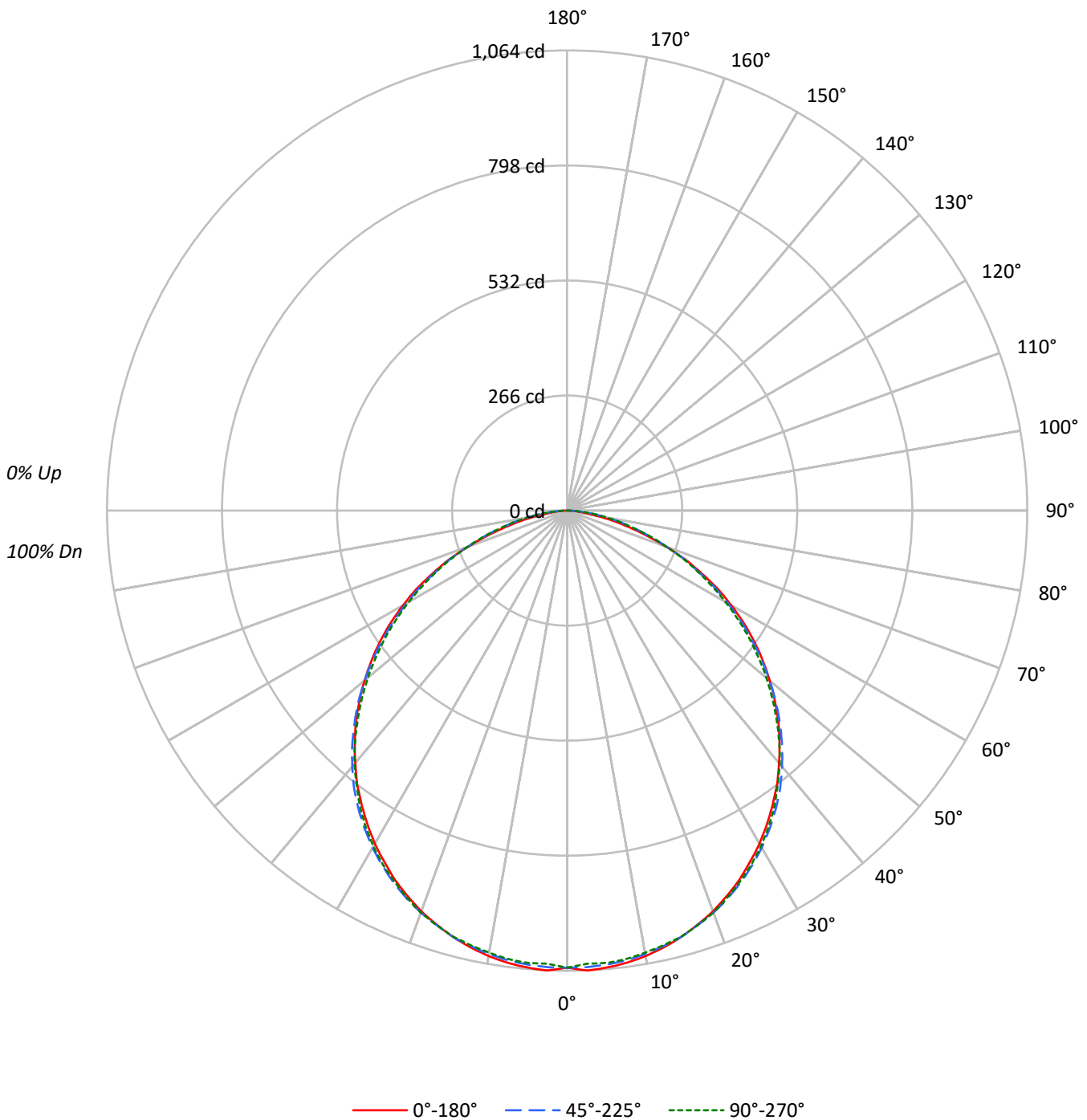
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92		94	92	89		91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10173	10173	10173
5°	10250	10183	10145
10°	10225	10177	10148
15°	10171	10171	10161
20°	10104	10135	10135
25°	10009	10081	10050
30°	9887	10006	9963
35°	9740	9889	9819
40°	9579	9714	9615
45°	9404	9471	9325
50°	9159	9159	9012
55°	8867	8753	8622
60°	8439	8270	8139
65°	7800	7645	7579
70°	6829	6885	6857
75°	5494	6078	6115
80°	3903	5151	5206
85°	2375	4319	4319

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 9471 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	3.5
10°-20°	287.1	10.0
20°-30°	434.8	15.1
30°-40°	521.3	18.1
40°-50°	531.6	18.4
50°-60°	464.0	16.1
60°-70°	332.2	11.5
70°-80°	170.6	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°	822.0	28.5
0°-40°	1343.3	46.6
0°-60°	2338.9	81.1
0°-90°	2884.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2884.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1061	1050	1054	1051	1050	101
15°	1020	1012	1020	1020	1020	288
25°	942	935	949	946	946	434
35°	829	827	841	836	836	519
45°	691	689	696	687	685	532
55°	528	522	522	514	514	471
65°	342	335	336	333	333	339
75°	148	155	163	164	164	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°	1056.7	1056.7	1056.7	1056.7	1056.7
2.5°	1064.5	1052.7	1056.7	1053.7	1048.8
5°	1060.6	1049.8	1053.7	1050.8	1049.8
7.5°	1054.7	1043.9	1048.8	1046.9	1045.9
10°	1045.9	1035.1	1041.0	1039.1	1038.1
12.5°	1034.2	1024.4	1031.2	1029.3	1029.3
15°	1020.5	1011.7	1020.5	1020.5	1019.5
17.5°	1003.8	996.0	1004.8	1005.8	1004.8
20°	986.2	977.4	989.2	988.2	989.2
22.5°	964.7	957.8	970.6	967.6	968.6
25°	942.2	935.3	949.0	946.1	946.1
27.5°	915.8	910.9	925.6	922.6	922.6
30°	889.4	884.5	900.1	896.2	896.2
32.5°	860.0	857.1	871.7	866.9	866.9
35°	828.7	826.7	841.4	835.5	835.5
37.5°	797.4	795.4	809.1	802.3	799.3
40°	762.2	761.2	772.9	765.1	765.1
42.5°	726.9	726.0	735.8	726.0	726.0
45°	690.7	688.8	695.6	686.8	684.9
47.5°	651.6	649.7	654.5	644.8	643.8
50°	611.5	609.5	611.5	602.7	601.7
52.5°	570.4	566.5	566.5	557.7	557.7
55°	528.3	521.5	521.5	513.7	513.7
57.5°	484.3	475.5	476.5	469.6	468.6
60°	438.3	428.5	429.5	423.6	422.7
62.5°	393.3	381.6	384.5	377.7	377.7
65°	342.4	334.6	335.6	332.7	332.7
67.5°	295.5	287.6	292.5	289.6	289.6
70°	242.6	237.7	244.6	244.6	243.6
72.5°	193.7	194.7	203.5	203.5	204.5
75°	147.7	154.6	163.4	164.4	164.4
77.5°	105.7	117.4	127.2	127.2	127.2
80°	70.4	84.1	92.9	94.9	93.9
82.5°	42.1	56.7	63.6	65.6	64.6
85°	21.5	33.3	39.1	40.1	39.1
87.5°	7.8	16.6	19.6	19.6	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)