

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

(formerly Eaton)

Brand: CORELITE

Report Number: P561587

Luminaire Tested: **SQ4-PC3-0U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561587
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-0U-075D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

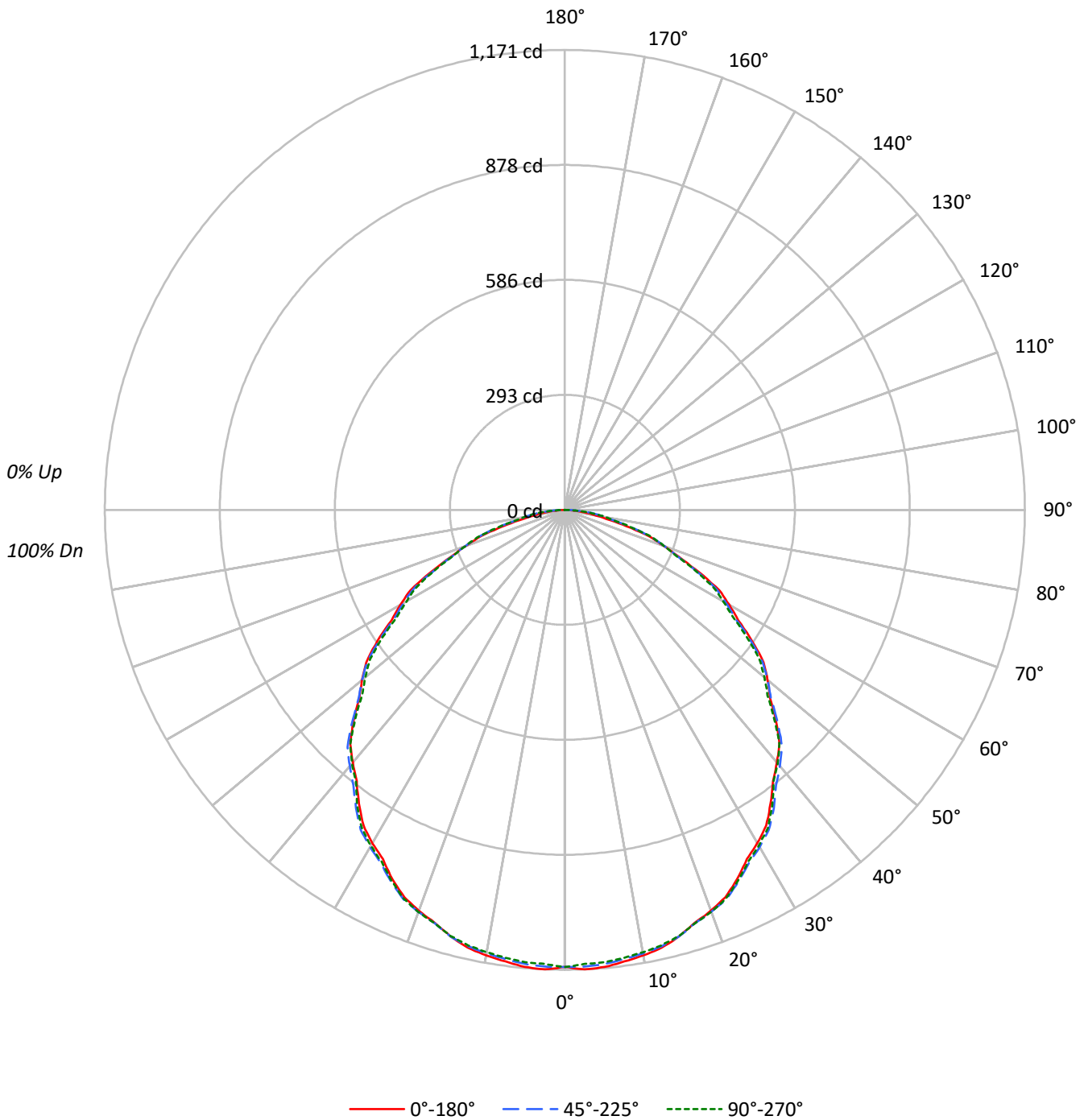
Lumens per Lamp: N/A
Luminaire Lumens: 3177.0 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.8
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°	10740	10740	10740
5°	10821	10751	10711
10°	10794	10744	10714
15°	10738	10738	10727
20°	10668	10699	10699
25°	10566	10643	10611
30°	10437	10564	10518
35°	10282	10440	10368
40°	10112	10255	10152
45°	9928	9999	9845
50°	9668	9668	9515
55°	9362	9241	9103
60°	8911	8732	8591
65°	8235	8071	8001
70°	7211	7270	7240
75°	5803	6417	6456
80°	4123	5441	5499
85°	2509	4563	4563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	3.5
10°-20°	316.1	10.0
20°-30°	478.8	15.1
30°-40°	574.0	18.1
40°-50°	585.2	18.4
50°-60°	510.9	16.1
60°-70°	365.8	11.5
70°-80°	188.4	5.9
80°-90°	47.6	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°	905.1	28.5
0°-40°	1479.0	46.6
0°-60°	2575.2	81.1
0°-90°	3177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3177.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1168	1157	1161	1158	1156	111
15°	1124	1115	1124	1124	1123	317
25°	1038	1031	1046	1042	1042	478
35°	913	911	927	920	920	571
45°	761	759	766	757	754	586
55°	582	575	574	566	566	519
65°	377	369	370	366	366	373
75°	163	170	180	181	181	176
85°	24	36	43	44	43	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1164.1	1164.1	1164.1	1164.1	1164.1
2.5°	1171.0	1160.8	1164.1	1161.4	1157.2
5°	1168.4	1156.8	1160.8	1157.6	1156.5
7.5°	1160.0	1148.4	1153.7	1151.5	1150.5
10°	1152.2	1140.6	1146.8	1144.6	1143.6
12.5°	1141.9	1131.1	1138.2	1136.0	1135.8
15°	1124.2	1114.7	1124.2	1124.2	1123.1
17.5°	1102.0	1093.3	1103.5	1104.1	1103.5
20°	1086.5	1077.0	1089.7	1088.6	1089.7
22.5°	1067.5	1059.7	1073.3	1070.5	1071.6
25°	1037.9	1030.6	1045.5	1042.3	1042.3
27.5°	1003.0	997.8	1014.0	1010.6	1010.6
30°	979.7	974.5	991.6	987.3	987.3
32.5°	953.9	950.3	966.6	961.4	961.4
35°	912.9	910.8	926.9	920.5	920.5
37.5°	870.7	868.8	883.4	875.6	873.0
40°	839.6	838.6	851.5	842.9	842.9
42.5°	808.6	807.5	818.7	808.4	808.4
45°	760.9	758.8	766.3	756.6	754.5
47.5°	709.0	706.9	711.6	701.0	699.9
50°	673.6	671.5	673.6	663.9	662.9
52.5°	637.4	633.6	634.0	624.3	624.1
55°	582.0	574.7	574.5	565.9	565.9
57.5°	523.4	513.7	514.6	507.2	506.1
60°	482.9	472.3	473.2	466.7	465.6
62.5°	443.2	431.0	433.5	426.2	426.0
65°	377.2	368.8	369.7	366.5	366.5
67.5°	313.9	306.1	311.7	309.1	308.9
70°	267.3	262.0	269.5	269.4	268.4
72.5°	224.2	224.0	233.2	233.3	233.9
75°	162.8	170.1	180.0	181.1	181.1
77.5°	108.6	121.7	132.6	133.0	132.8
80°	77.6	92.4	102.4	104.5	103.5
82.5°	52.6	68.2	76.5	78.7	77.6
85°	23.7	36.4	43.1	44.2	43.1
87.5°	6.9	14.5	17.2	17.2	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)