

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: P562758

Luminaire Tested: **SQ4-PC3-075U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562758
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PC3-075U-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

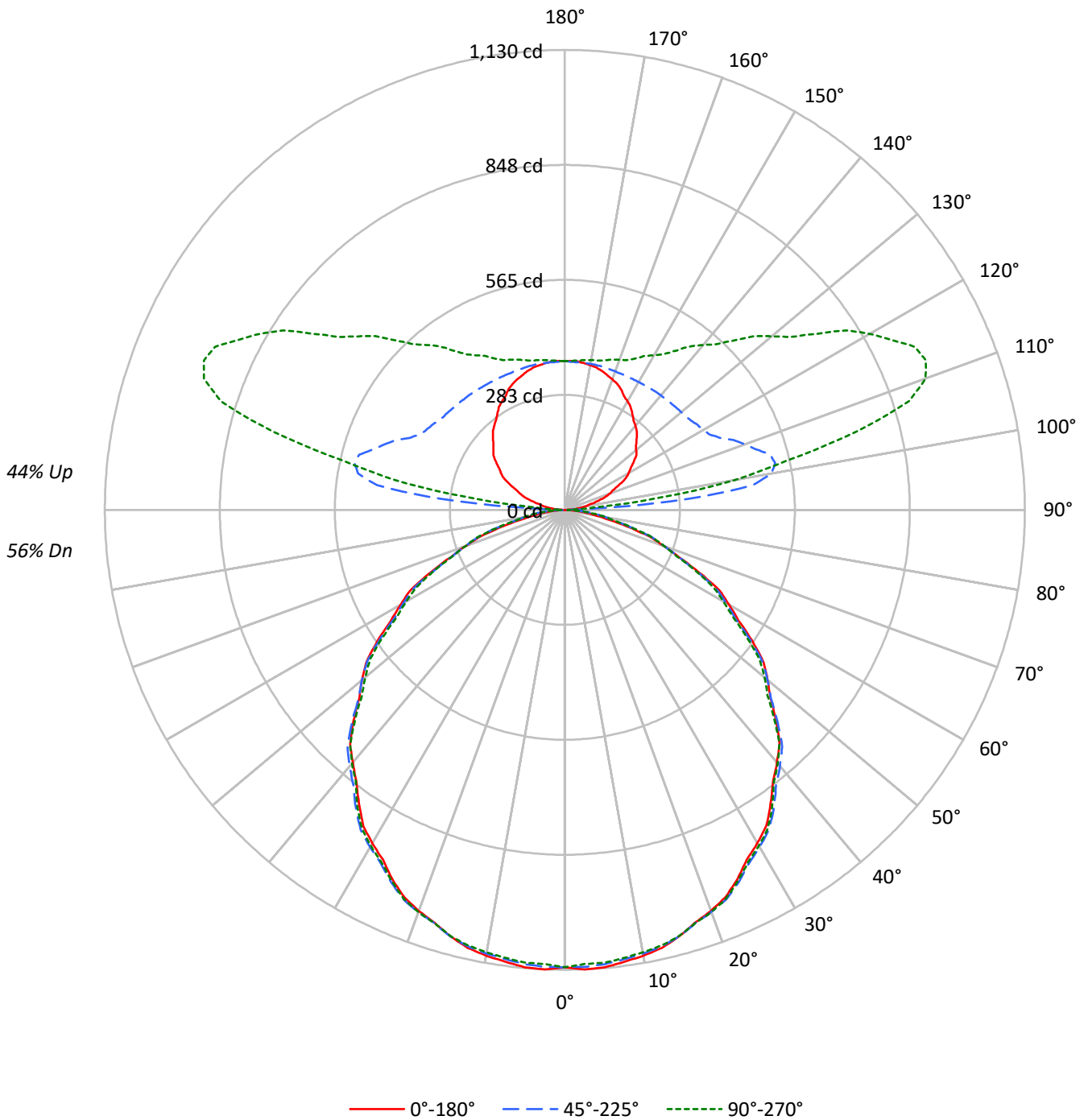
Lumens per Lamp: N/A
Luminaire Lumens: 5450.1 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	88	85	82	76	74	72	65	63	62	55	54	52	48
2	90	83	77	72	84	77	72	67	67	63	59	57	54	52	48	46	44	40
3	82	73	65	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34
4	75	64	56	50	70	60	53	48	52	47	42	45	41	37	38	35	32	29
5	69	57	49	43	64	54	46	41	47	41	37	40	36	32	34	31	28	25
6	64	52	43	37	59	48	41	36	42	36	32	36	32	28	31	28	25	22
7	59	47	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22	19
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20	17
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18	16
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10367	10367	10367
5°	10446	10378	10339
10°	10421	10372	10342
15°	10365	10365	10356
20°	10297	10328	10328
25°	10200	10275	10242
30°	10076	10198	10154
35°	9926	10078	10008
40°	9762	9900	9799
45°	9585	9653	9503
50°	9334	9334	9185
55°	9038	8921	8786
60°	8601	8429	8294
65°	7951	7792	7724
70°	6960	7016	6989
75°	5600	6196	6231
80°	3980	5249	5308
85°	2424	4404	4404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	2.0
10°-20°	305.2	5.6
20°-30°	462.2	8.5
30°-40°	554.1	10.2
40°-50°	565.0	10.4
50°-60°	493.2	9.0
60°-70°	353.1	6.5
70°-80°	181.9	3.3
80°-90°	46.9	0.9
90°-100°	172.5	3.2
100°-110°	474.5	8.7
110°-120°	489.8	9.0
120°-130°	392.4	7.2
130°-140°	308.2	5.7
140°-150°	236.2	4.3
150°-160°	169.8	3.1
160°-170°	103.8	1.9
170°-180°	35.0	0.6
0°-30°	873.7	16.0
0°-40°	1427.8	26.2
0°-60°	2485.9	45.6
0°-90°	3067.7	56.3
90°-120°	1136.8	20.9
90°-150°	2073.6	38.0
90°-180°	2382.0	43.7
0°-180°	5450.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1128	1117	1121	1117	1116	107
15°	1085	1076	1085	1085	1084	306
25°	1002	995	1009	1006	1006	461
35°	881	879	895	889	889	551
45°	735	732	740	730	728	565
55°	562	555	555	546	546	501
65°	364	356	357	354	354	360
75°	157	164	174	175	175	170
85°	23	35	42	43	42	31
90°	1	3	5	7	7	3
95°	26	94	305	130	83	27
105°	85	130	523	796	743	89
115°	150	183	419	835	948	148
125°	207	236	380	644	754	185
135°	250	277	370	520	589	193
145°	289	308	364	444	478	181
155°	327	337	362	399	410	150
165°	353	358	363	378	380	100
175°	366	366	364	369	368	35
180°	366	366	366	366	366	

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CATALOG NUMBER: SQ4-PC3-075U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1123.7	1123.7	1123.7	1123.7	1123.7
2.5°	1130.4	1120.6	1123.7	1121.1	1117.0
5°	1127.9	1116.7	1120.6	1117.4	1116.4
7.5°	1119.8	1108.6	1113.7	1111.6	1110.6
10°	1112.3	1101.1	1107.1	1105.0	1103.9
12.5°	1102.3	1091.9	1098.7	1096.7	1096.4
15°	1085.2	1076.1	1085.2	1085.2	1084.2
17.5°	1063.8	1055.4	1065.2	1065.8	1065.2
20°	1048.8	1039.6	1051.9	1050.9	1051.9
22.5°	1030.5	1023.0	1036.1	1033.4	1034.4
25°	1002.0	994.9	1009.3	1006.1	1006.1
27.5°	968.3	963.2	978.9	975.5	975.5
30°	945.8	940.7	957.2	953.1	953.1
32.5°	920.8	917.4	933.1	928.1	928.1
35°	881.3	879.2	894.8	888.6	888.6
37.5°	840.5	838.7	852.8	845.2	842.8
40°	810.5	809.5	822.0	813.6	813.6
42.5°	780.6	779.5	790.3	780.4	780.4
45°	734.6	732.5	739.8	730.4	728.3
47.5°	684.4	682.4	686.9	676.7	675.7
50°	650.3	648.3	650.3	640.9	639.9
52.5°	615.3	611.7	612.0	602.6	602.4
55°	561.9	554.7	554.6	546.2	546.2
57.5°	505.3	495.9	496.7	489.6	488.6
60°	466.1	456.0	456.8	450.5	449.5
62.5°	427.8	416.0	418.5	411.4	411.2
65°	364.2	356.0	356.9	353.8	353.8
67.5°	303.0	295.5	300.9	298.4	298.2
70°	258.0	252.9	260.1	260.1	259.1
72.5°	216.4	216.2	225.2	225.2	225.8
75°	157.1	164.2	173.8	174.8	174.8
77.5°	104.9	117.5	128.0	128.4	128.2
80°	74.9	89.2	98.8	100.9	99.9
82.5°	50.8	65.8	73.9	75.9	74.9
85°	22.9	35.1	41.6	42.6	41.6
87.5°	6.8	14.6	17.7	18.0	16.4
90°	0.8	3.1	5.4	7.0	7.0
92.5°	10.7	45.9	79.5	30.5	25.1
95°	25.7	94.1	305.0	130.4	83.3
97.5°	41.9	104.4	465.4	358.6	253.0
100°	53.7	110.7	515.9	520.7	424.8
102.5°	64.9	118.3	528.9	646.0	558.0
105°	84.8	130.5	522.9	796.3	743.0
107.5°	103.8	145.5	493.1	869.9	885.7
110°	117.5	155.5	470.7	888.2	943.0

TEST NUMBER: P562758

CATALOG NUMBER: SQ4-PC3-075U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.9	166.8	448.3	876.4	959.8
115°	150.2	182.9	419.4	835.1	947.7
117.5°	169.5	199.6	401.0	777.1	904.4
120°	181.3	210.2	392.9	733.6	865.2
122.5°	191.9	220.8	387.3	695.5	820.4
125°	207.0	235.9	380.5	643.6	753.9
127.5°	221.3	248.8	376.0	600.4	697.1
130°	228.8	256.9	373.5	574.7	662.9
132.5°	237.5	265.6	371.6	552.1	631.8
135°	249.8	277.1	369.6	520.5	589.0
137.5°	261.3	286.7	367.9	495.0	551.5
140°	270.0	293.6	367.2	478.1	529.1
142.5°	277.5	299.2	366.0	463.0	506.7
145°	288.7	308.4	364.1	443.5	477.7
147.5°	300.6	317.7	363.2	426.2	453.6
150°	308.1	323.3	362.6	416.7	438.0
152.5°	315.0	329.0	362.0	408.6	426.2
155°	326.8	337.4	361.8	398.6	410.0
157.5°	335.3	344.0	361.8	390.5	398.4
160°	341.6	348.4	361.8	386.1	392.1
162.5°	346.5	352.2	362.4	382.3	387.2
165°	353.2	357.8	363.4	378.2	380.5
167.5°	357.9	361.4	364.1	374.7	375.3
170°	361.0	363.3	364.1	373.5	373.5
172.5°	363.5	364.6	364.1	371.6	371.0
175°	365.7	366.4	364.1	368.8	368.0
177.5°	366.3	366.3	363.8	367.5	366.3
180°	365.7	365.7	365.7	365.7	365.7

(END OF REPORT)