

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: P562746

Luminaire Tested: **SQ4-PC3-075U-100D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562746
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-830-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

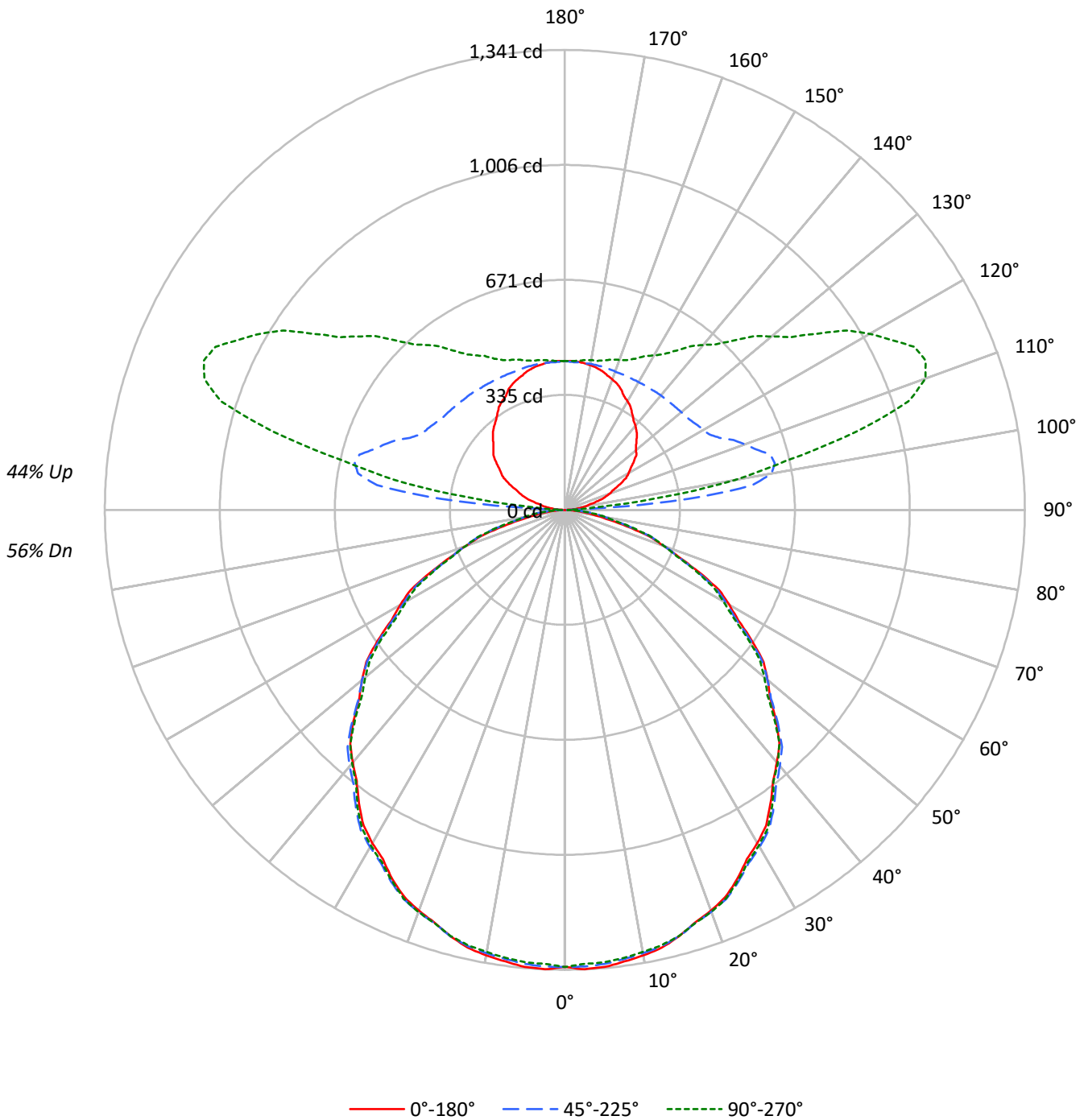
Lumens per Lamp: N/A
Luminaire Lumens: 6464.6 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	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°	12298	12298	12298
5°	12390	12310	12265
10°	12360	12303	12267
15°	12295	12295	12283
20°	12214	12250	12250
25°	12099	12186	12149
30°	11952	12096	12044
35°	11773	11955	11871
40°	11579	11743	11624
45°	11369	11449	11272
50°	11072	11072	10894
55°	10719	10581	10422
60°	10202	9998	9839
65°	9431	9241	9160
70°	8257	8322	8290
75°	6645	7347	7390
80°	4723	6227	6296
85°	2879	5229	5229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	2.0
10°-20°	362.0	5.6
20°-30°	548.2	8.5
30°-40°	657.2	10.2
40°-50°	670.1	10.4
50°-60°	585.0	9.0
60°-70°	418.8	6.5
70°-80°	215.7	3.3
80°-90°	55.7	0.9
90°-100°	204.6	3.2
100°-110°	562.9	8.7
110°-120°	581.0	9.0
120°-130°	465.5	7.2
130°-140°	365.6	5.7
140°-150°	280.2	4.3
150°-160°	201.4	3.1
160°-170°	123.2	1.9
170°-180°	41.5	0.6
0°-30°	1036.3	16.0
0°-40°	1693.6	26.2
0°-60°	2948.7	45.6
0°-90°	3638.8	56.3
90°-120°	1348.4	20.9
90°-150°	2459.7	38.0
90°-180°	2826.0	43.7
0°-180°	6464.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1338	1325	1329	1326	1324	127
15°	1287	1276	1287	1287	1286	363
25°	1188	1180	1197	1193	1193	547
35°	1045	1043	1061	1054	1054	654
45°	871	869	878	866	864	671
55°	666	658	658	648	648	594
65°	432	422	423	420	420	427
75°	186	195	206	207	207	201
85°	27	42	49	51	49	37
90°	1	4	6	8	8	3
95°	30	112	362	155	99	32
105°	101	155	620	944	881	106
115°	178	217	497	990	1124	176
125°	246	280	451	763	894	219
135°	296	329	438	617	699	229
145°	342	366	432	526	567	215
155°	388	400	429	473	486	178
165°	419	424	431	449	451	118
175°	434	435	432	437	436	41
180°	434	434	434	434	434	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1332.9	1332.9	1332.9	1332.9	1332.9
2.5°	1340.8	1329.2	1332.9	1329.8	1325.0
5°	1337.8	1324.6	1329.2	1325.5	1324.3
7.5°	1328.2	1314.9	1321.0	1318.6	1317.3
10°	1319.3	1306.0	1313.2	1310.7	1309.4
12.5°	1307.5	1295.2	1303.3	1300.8	1300.6
15°	1287.2	1276.4	1287.2	1287.2	1286.0
17.5°	1261.8	1251.9	1263.5	1264.3	1263.5
20°	1244.0	1233.2	1247.7	1246.5	1247.7
22.5°	1222.3	1213.4	1229.0	1225.8	1227.0
25°	1188.5	1180.1	1197.1	1193.4	1193.4
27.5°	1148.5	1142.5	1161.1	1157.2	1157.2
30°	1121.9	1115.8	1135.4	1130.5	1130.5
32.5°	1092.2	1088.1	1106.8	1100.9	1100.9
35°	1045.3	1042.9	1061.4	1054.0	1054.0
37.5°	997.0	994.8	1011.5	1002.6	999.7
40°	961.4	960.2	975.0	965.1	965.1
42.5°	925.9	924.7	937.5	925.6	925.6
45°	871.3	868.9	877.5	866.3	863.9
47.5°	811.8	809.4	814.8	802.7	801.5
50°	771.4	768.9	771.4	760.2	759.0
52.5°	729.9	725.5	725.9	714.8	714.6
55°	666.4	658.0	657.8	647.9	647.9
57.5°	599.3	588.2	589.2	580.8	579.6
60°	552.9	540.8	541.8	534.4	533.2
62.5°	507.5	493.5	496.4	488.0	487.7
65°	432.0	422.3	423.3	419.6	419.6
67.5°	359.4	350.5	356.9	354.0	353.7
70°	306.1	300.0	308.5	308.5	307.3
72.5°	256.7	256.5	267.1	267.1	267.8
75°	186.4	194.8	206.1	207.3	207.3
77.5°	124.4	139.4	151.8	152.3	152.0
80°	88.9	105.8	117.2	119.7	118.5
82.5°	60.2	78.1	87.6	90.1	88.9
85°	27.2	41.6	49.4	50.6	49.4
87.5°	8.1	17.3	21.0	21.4	19.4
90°	0.9	3.6	6.5	8.3	8.3
92.5°	12.7	54.4	94.3	36.2	29.7
95°	30.5	111.7	361.8	154.7	98.8
97.5°	49.7	123.8	552.1	425.4	300.1
100°	63.7	131.4	611.9	617.6	503.9
102.5°	77.0	140.3	627.4	766.2	661.9
105°	100.6	154.7	620.2	944.5	881.4
107.5°	123.1	172.6	584.9	1031.9	1050.6
110°	139.4	184.5	558.4	1053.6	1118.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.1	197.8	531.8	1039.6	1138.5
115°	178.1	216.9	497.4	990.5	1124.1
117.5°	201.0	236.7	475.7	921.7	1072.8
120°	215.0	249.3	466.1	870.2	1026.3
122.5°	227.6	261.9	459.4	824.9	973.1
125°	245.5	279.8	451.3	763.4	894.3
127.5°	262.5	295.1	445.9	712.1	826.9
130°	271.3	304.7	443.0	681.6	786.3
132.5°	281.7	315.1	440.8	654.8	749.4
135°	296.3	328.7	438.4	617.4	698.6
137.5°	309.9	340.1	436.3	587.2	654.2
140°	320.2	348.2	435.6	567.1	627.6
142.5°	329.1	354.9	434.1	549.2	601.0
145°	342.4	365.9	431.9	526.1	566.7
147.5°	356.6	376.8	430.8	505.6	538.1
150°	365.5	383.5	430.1	494.3	519.6
152.5°	373.6	390.2	429.3	484.6	505.6
155°	387.6	400.3	429.2	472.8	486.4
157.5°	397.8	408.1	429.2	463.1	472.5
160°	405.2	413.3	429.2	457.9	465.1
162.5°	411.1	417.7	429.9	453.5	459.2
165°	419.0	424.4	431.0	448.6	451.3
167.5°	424.5	428.7	431.9	444.5	445.2
170°	428.2	430.9	431.9	443.0	443.0
172.5°	431.2	432.4	431.9	440.8	440.0
175°	433.8	434.7	431.9	437.4	436.5
177.5°	434.5	434.5	431.6	435.9	434.5
180°	433.8	433.8	433.8	433.8	433.8

(END OF REPORT)