

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: P562745

Luminaire Tested: **SQ4-PC3-075U-100D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562745
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-12
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

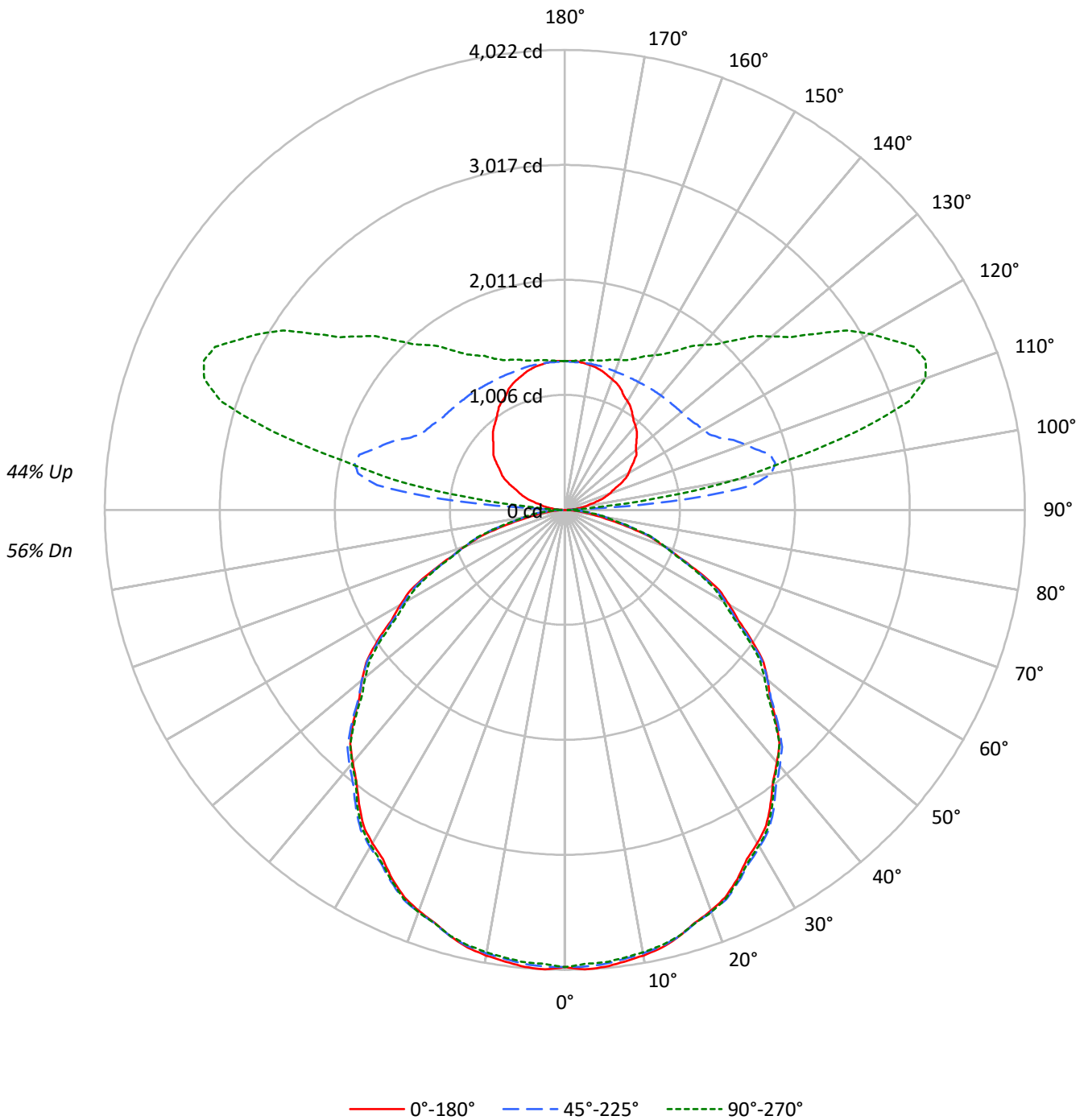
Lumens per Lamp: N/A
Luminaire Lumens: 19393.9 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 162.2
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	12302	12267
15°	12295	12295	12283
20°	12214	12251	12251
25°	12099	12187	12149
30°	11952	12096	12044
35°	11774	11954	11871
40°	11579	11743	11624
45°	11369	11449	11272
50°	11072	11072	10894
55°	10720	10581	10422
60°	10202	9998	9838
65°	9430	9242	9160
70°	8256	8323	8290
75°	6643	7347	7391
80°	4722	6229	6294
85°	2876	5226	5226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.4	2.0
10°-20°	1086.0	5.6
20°-30°	1644.6	8.5
30°-40°	1971.7	10.2
40°-50°	2010.4	10.4
50°-60°	1755.0	9.0
60°-70°	1256.4	6.5
70°-80°	647.1	3.3
80°-90°	166.9	0.9
90°-100°	613.7	3.2
100°-110°	1688.6	8.7
110°-120°	1742.9	9.0
120°-130°	1396.4	7.2
130°-140°	1096.8	5.7
140°-150°	840.5	4.3
150°-160°	604.3	3.1
160°-170°	369.5	1.9
170°-180°	124.6	0.6
0°-30°	3109.0	16.0
0°-40°	5080.7	26.2
0°-60°	8846.0	45.6
0°-90°	10916.5	56.3
90°-120°	4045.3	20.9
90°-150°	7379.0	38.0
90°-180°	8477.0	43.7
0°-180°	19393.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3999	3999	3999	3999	3999	
5°	4014	3974	3988	3976	3973	381
15°	3862	3829	3862	3862	3858	1089
25°	3566	3540	3591	3580	3580	1641
35°	3136	3129	3184	3162	3162	1961
45°	2614	2607	2632	2599	2592	2012
55°	1999	1974	1973	1944	1944	1782
65°	1296	1267	1270	1259	1259	1282
75°	559	584	618	622	622	604
85°	82	125	148	152	148	111
90°	3	11	19	25	25	9
95°	91	335	1085	464	296	97
105°	302	464	1861	2834	2644	318
115°	534	651	1492	2972	3372	527
125°	736	839	1354	2290	2683	657
135°	889	986	1315	1852	2096	686
145°	1027	1098	1296	1578	1700	644
155°	1163	1201	1288	1418	1459	534
165°	1257	1273	1293	1346	1354	354
175°	1301	1304	1296	1312	1310	124
180°	1301	1301	1301	1301	1301	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3998.7	3998.7	3998.7	3998.7	3998.7
2.5°	4022.4	3987.6	3998.7	3989.5	3975.0
5°	4013.5	3973.7	3987.6	3976.4	3972.8
7.5°	3984.6	3944.8	3963.1	3955.7	3952.0
10°	3958.0	3918.1	3939.5	3932.0	3928.3
12.5°	3922.4	3885.5	3909.8	3902.4	3901.7
15°	3861.7	3829.1	3861.7	3861.6	3858.0
17.5°	3785.4	3755.7	3790.6	3792.8	3790.6
20°	3732.1	3699.5	3743.2	3739.6	3743.2
22.5°	3666.9	3640.2	3686.9	3677.4	3681.0
25°	3565.5	3540.2	3591.4	3580.3	3580.3
27.5°	3445.5	3427.4	3483.3	3471.5	3471.5
30°	3365.6	3347.5	3406.3	3391.5	3391.5
32.5°	3276.7	3264.4	3320.4	3302.6	3302.6
35°	3136.0	3128.8	3184.1	3161.9	3161.9
37.5°	2990.9	2984.4	3034.6	3007.7	2999.0
40°	2884.2	2880.6	2925.0	2895.3	2895.3
42.5°	2777.6	2774.0	2812.4	2776.9	2776.9
45°	2614.0	2606.7	2632.5	2599.0	2591.7
47.5°	2435.5	2428.3	2444.4	2408.0	2404.4
50°	2314.1	2306.8	2314.1	2280.7	2277.0
52.5°	2189.7	2176.6	2177.8	2144.5	2143.7
55°	1999.3	1974.0	1973.4	1943.8	1943.8
57.5°	1797.9	1764.6	1767.6	1742.3	1738.7
60°	1658.7	1622.5	1625.4	1603.1	1599.5
62.5°	1522.5	1480.5	1489.1	1463.9	1463.2
65°	1295.9	1266.9	1270.0	1258.8	1258.8
67.5°	1078.2	1051.4	1070.8	1061.9	1061.1
70°	918.2	900.1	925.6	925.5	921.9
72.5°	770.1	769.4	801.2	801.3	803.4
75°	559.1	584.4	618.3	622.0	622.0
77.5°	373.2	418.1	455.4	456.9	456.1
80°	266.6	317.3	351.7	359.1	355.4
82.5°	180.7	234.3	262.9	270.2	266.6
85°	81.5	124.9	148.1	151.7	148.1
87.5°	24.2	51.9	63.1	64.1	58.3
90°	2.8	10.9	19.4	24.9	24.9
92.5°	38.2	163.3	283.0	108.6	89.2
95°	91.4	335.0	1085.3	464.1	296.3
97.5°	149.0	371.5	1656.2	1276.1	900.4
100°	191.0	394.1	1835.7	1852.8	1511.7
102.5°	230.9	421.0	1882.2	2298.7	1985.7
105°	301.8	464.2	1860.6	2833.6	2644.1
107.5°	369.3	517.7	1754.8	3095.6	3151.9
110°	418.1	553.4	1675.1	3160.8	3355.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	462.4	593.4	1595.3	3118.8	3415.5
115°	534.4	650.8	1492.3	2971.6	3372.3
117.5°	603.0	710.2	1427.0	2765.2	3218.4
120°	645.1	748.0	1398.2	2610.5	3078.8
122.5°	682.8	785.6	1378.3	2474.8	2919.3
125°	736.5	839.4	1353.9	2290.3	2682.9
127.5°	787.4	885.4	1337.8	2136.4	2480.8
130°	814.0	914.2	1329.0	2044.9	2358.9
132.5°	845.0	945.2	1322.3	1964.5	2248.2
135°	888.8	986.2	1315.1	1852.3	2095.9
137.5°	929.7	1020.2	1309.0	1761.6	1962.5
140°	960.7	1044.7	1306.8	1701.3	1882.7
142.5°	987.3	1064.7	1302.4	1647.6	1803.0
145°	1027.2	1097.6	1295.8	1578.2	1700.0
147.5°	1069.8	1130.5	1292.4	1516.7	1614.2
150°	1096.4	1150.6	1290.2	1483.0	1558.8
152.5°	1120.8	1170.6	1288.0	1453.9	1516.7
155°	1162.9	1200.8	1287.5	1418.5	1459.1
157.5°	1193.3	1224.2	1287.5	1389.4	1417.6
160°	1215.5	1239.8	1287.5	1373.8	1395.4
162.5°	1233.2	1253.2	1289.7	1360.4	1377.7
165°	1257.0	1273.2	1293.0	1345.8	1353.9
167.5°	1273.6	1286.1	1295.8	1333.5	1335.6
170°	1284.7	1292.8	1295.8	1329.0	1329.0
172.5°	1293.5	1297.3	1295.8	1322.3	1320.1
175°	1301.3	1304.0	1295.8	1312.3	1309.6
177.5°	1303.5	1303.5	1294.7	1307.8	1303.5
180°	1301.3	1301.3	1301.3	1301.3	1301.3

(END OF REPORT)