

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: P563175

Luminaire Tested: **SQ4-PC3-150U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563175
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PC3-150U-125D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

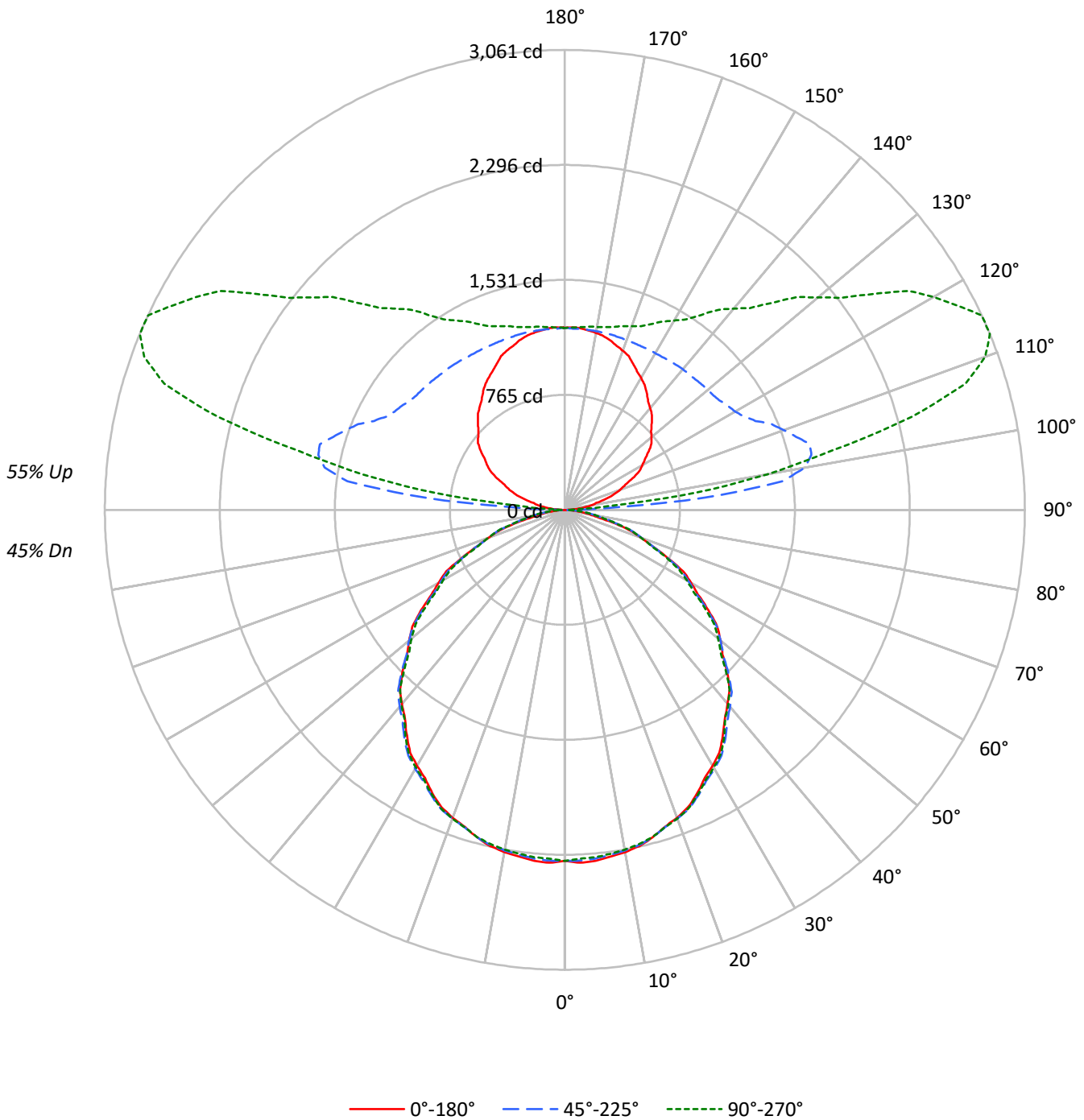
Lumens per Lamp: N/A
Luminaire Lumens: 14191.4 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 127.1
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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	51	51	51	45
1	97	92	89	85	88	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	80	74	69	65	62	58	55	51	48	46	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14373	14373	14373
5°	14481	14388	14334
10°	14446	14379	14338
15°	14370	14370	14357
20°	14276	14318	14318
25°	14141	14244	14200
30°	13969	14138	14076
35°	13761	13972	13875
40°	13533	13724	13586
45°	13288	13382	13175
50°	12940	12940	12733
55°	12529	12366	12181
60°	11924	11685	11498
65°	11022	10801	10707
70°	9650	9727	9690
75°	7764	8586	8639
80°	5519	7279	7357
85°	3359	6105	6105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.2	1.6
10°-20°	634.6	4.5
20°-30°	961.1	6.8
30°-40°	1152.2	8.1
40°-50°	1174.9	8.3
50°-60°	1025.6	7.2
60°-70°	734.2	5.2
70°-80°	378.2	2.7
80°-90°	98.1	0.7
90°-100°	563.1	4.0
100°-110°	1522.4	10.7
110°-120°	1600.6	11.3
120°-130°	1300.1	9.2
130°-140°	1019.8	7.2
140°-150°	782.7	5.5
150°-160°	562.9	4.0
160°-170°	343.9	2.4
170°-180°	115.9	0.8
0°-30°	1816.9	12.8
0°-40°	2969.1	20.9
0°-60°	5169.5	36.4
0°-90°	6380.0	45.0
90°-120°	3686.0	26.0
90°-150°	6788.7	47.8
90°-180°	7811.0	55.0
0°-180°	14191.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2337	2337	2337	2337	2337	
5°	2345	2322	2330	2324	2322	223
15°	2257	2238	2257	2257	2255	636
25°	2084	2069	2099	2092	2092	959
35°	1833	1828	1861	1848	1848	1146
45°	1528	1523	1538	1519	1515	1176
55°	1168	1154	1153	1136	1136	1042
65°	757	740	742	736	736	749
75°	327	342	361	364	364	353
85°	48	73	86	89	86	65
90°	3	8	17	18	17	8
95°	87	307	936	485	288	91
105°	283	437	1689	2491	2389	298
115°	498	609	1401	2712	3061	492
125°	682	782	1262	2130	2503	608
135°	818	915	1228	1720	1947	632
145°	951	1022	1212	1472	1585	595
155°	1073	1115	1201	1321	1364	495
165°	1168	1180	1206	1253	1260	329
175°	1213	1212	1208	1223	1221	115
180°	1212	1212	1212	1212	1212	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2336.8	2336.8	2336.8	2336.8	2336.8
2.5°	2350.6	2330.3	2336.8	2331.4	2322.9
5°	2345.4	2322.2	2330.3	2323.7	2321.6
7.5°	2328.6	2305.3	2316.0	2311.6	2309.5
10°	2313.0	2289.7	2302.2	2297.8	2295.7
12.5°	2292.2	2270.6	2284.8	2280.5	2280.1
15°	2256.7	2237.7	2256.7	2256.7	2254.6
17.5°	2212.1	2194.8	2215.2	2216.4	2215.2
20°	2181.0	2161.9	2187.5	2185.4	2187.5
22.5°	2142.9	2127.3	2154.6	2149.0	2151.1
25°	2083.6	2068.8	2098.8	2092.3	2092.3
27.5°	2013.5	2002.9	2035.6	2028.7	2028.7
30°	1966.8	1956.2	1990.6	1981.9	1981.9
32.5°	1914.9	1907.7	1940.4	1930.0	1930.0
35°	1832.6	1828.4	1860.8	1847.8	1847.8
37.5°	1747.8	1744.0	1773.4	1757.7	1752.6
40°	1685.5	1683.4	1709.3	1692.0	1692.0
42.5°	1623.2	1621.1	1643.5	1622.8	1622.8
45°	1527.6	1523.3	1538.4	1518.8	1514.6
47.5°	1423.3	1419.0	1428.5	1407.2	1405.1
50°	1352.3	1348.1	1352.3	1332.8	1330.7
52.5°	1279.6	1272.0	1272.7	1253.2	1252.8
55°	1168.4	1153.6	1153.2	1135.9	1135.9
57.5°	1050.7	1031.2	1032.9	1018.2	1016.1
60°	969.3	948.2	949.9	936.8	934.7
62.5°	889.7	865.2	870.2	855.5	855.1
65°	757.3	740.4	742.1	735.7	735.7
67.5°	630.1	614.4	625.7	620.5	620.1
70°	536.6	526.0	540.9	540.9	538.8
72.5°	450.0	449.6	468.2	468.2	469.5
75°	326.7	341.5	361.3	363.5	363.5
77.5°	218.1	244.3	266.1	267.0	266.6
80°	155.8	185.4	205.5	209.8	207.7
82.5°	105.6	136.9	153.6	157.9	155.8
85°	47.6	73.0	86.5	88.7	86.5
87.5°	14.4	30.6	38.0	38.2	34.5
90°	2.6	7.7	17.0	18.2	17.0
92.5°	37.0	135.0	266.3	115.6	83.7
95°	87.4	306.7	936.4	484.6	288.2
97.5°	140.3	351.8	1459.6	1207.9	887.1
100°	180.0	370.0	1622.4	1692.0	1368.1
102.5°	216.5	395.3	1679.8	2059.0	1816.7
105°	283.0	437.3	1688.9	2491.2	2389.2
107.5°	344.6	485.3	1615.1	2760.9	2794.8
110°	392.6	520.1	1549.3	2833.3	2977.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	435.3	554.7	1488.8	2818.8	3060.9
115°	498.2	609.1	1400.7	2711.5	3060.9
117.5°	559.7	663.8	1342.5	2547.4	2943.5
120°	597.3	699.3	1308.1	2429.7	2833.9
122.5°	632.8	732.8	1287.2	2303.5	2710.8
125°	682.1	781.5	1262.4	2130.3	2502.7
127.5°	727.5	825.1	1247.8	1989.0	2316.4
130°	752.5	853.2	1241.6	1901.7	2197.5
132.5°	778.6	878.3	1235.3	1822.9	2095.3
135°	817.7	914.6	1228.5	1720.1	1947.1
137.5°	857.1	948.6	1222.8	1636.7	1821.6
140°	884.2	969.7	1220.7	1583.1	1747.6
142.5°	910.3	990.6	1216.5	1534.6	1678.7
145°	950.7	1022.1	1211.6	1472.3	1584.6
147.5°	987.5	1050.8	1205.8	1415.9	1502.1
150°	1014.6	1070.7	1203.7	1385.3	1454.1
152.5°	1039.7	1088.6	1202.7	1356.8	1413.4
155°	1073.3	1115.4	1201.1	1320.8	1364.1
157.5°	1108.3	1137.6	1201.4	1295.7	1324.2
160°	1128.1	1152.3	1202.4	1279.8	1300.2
162.5°	1143.7	1163.9	1203.5	1267.2	1282.5
165°	1168.5	1180.0	1206.3	1253.4	1259.8
167.5°	1185.5	1193.4	1206.6	1241.6	1244.7
170°	1195.9	1199.7	1207.6	1236.3	1236.3
172.5°	1204.3	1205.0	1207.6	1230.1	1229.0
175°	1212.9	1211.6	1207.6	1223.2	1220.7
177.5°	1215.7	1212.7	1207.4	1217.8	1214.7
180°	1211.6	1211.6	1211.6	1211.6	1211.6

(END OF REPORT)