

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: P562983

Luminaire Tested: **SQ4-PC3-100U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562983
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-125D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

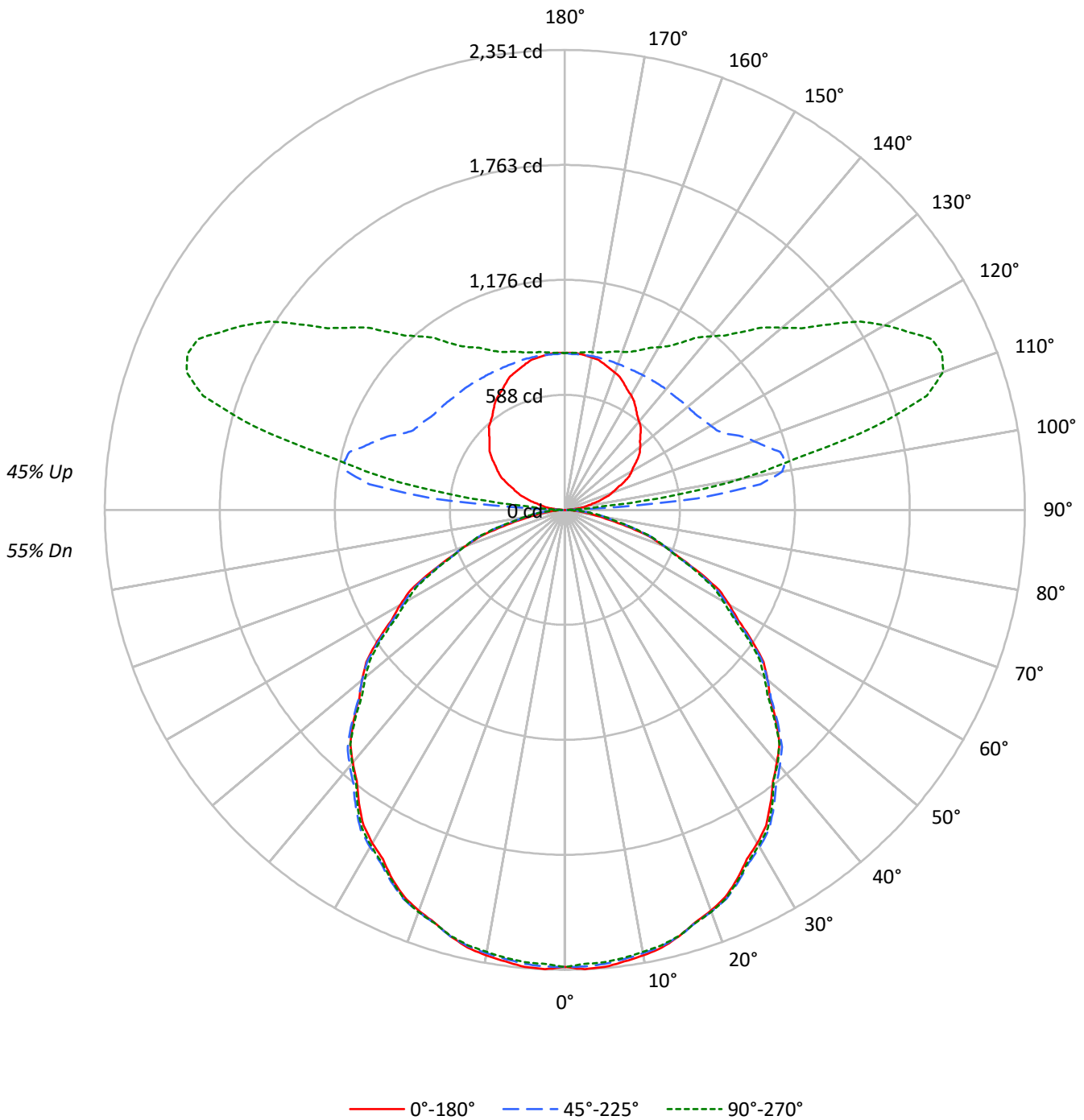
Lumens per Lamp: N/A
Luminaire Lumens: 11587.2 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 107.3
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	51	47
2	90	83	76	71	83	77	72	67	66	62	59	56	54	51	47	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33
4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22	19
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

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	1.9
10°-20°	634.6	5.5
20°-30°	961.1	8.3
30°-40°	1152.2	9.9
40°-50°	1174.9	10.1
50°-60°	1025.6	8.9
60°-70°	734.2	6.3
70°-80°	378.2	3.3
80°-90°	97.3	0.8
90°-100°	375.4	3.2
100°-110°	1036.3	8.9
110°-120°	1068.7	9.2
120°-130°	858.8	7.4
130°-140°	674.9	5.8
140°-150°	517.7	4.5
150°-160°	372.0	3.2
160°-170°	227.5	2.0
170°-180°	76.7	0.7
0°-30°	1816.9	15.7
0°-40°	2969.1	25.6
0°-60°	5169.5	44.6
0°-90°	6379.2	55.1
90°-120°	2480.4	21.4
90°-150°	4531.8	39.1
90°-180°	5208.0	44.9
0°-180°	11587.2	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	5	10	12	13	6
95°	55	203	681	280	182	59
105°	185	285	1140	1741	1639	196
115°	331	400	918	1818	2067	325
125°	454	517	832	1409	1653	404
135°	546	605	809	1141	1286	423
145°	634	677	799	971	1045	397
155°	714	738	793	871	899	329
165°	773	783	796	827	834	218
175°	802	803	798	809	807	76
180°	802	802	802	802	802	

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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	30.1	36.7	36.9	33.7
90°	2.6	5.1	10.3	11.6	12.8
92.5°	23.1	95.8	171.3	62.5	48.7
95°	55.1	203.1	681.0	279.9	182.1
97.5°	91.3	227.5	1008.8	776.7	562.5
100°	118.0	242.1	1129.9	1137.8	924.7
102.5°	143.6	258.8	1153.5	1405.9	1203.7
105°	184.7	285.0	1140.1	1740.6	1639.0
107.5°	228.3	317.6	1076.5	1902.0	1939.1
110°	259.1	339.3	1027.3	1936.7	2057.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	286.8	364.0	981.1	1909.3	2086.8
115°	330.9	399.8	918.3	1817.8	2067.4
117.5°	369.4	438.1	877.0	1689.1	1973.0
120°	395.0	462.7	860.5	1601.9	1887.8
122.5°	419.6	484.3	847.2	1520.5	1791.4
125°	454.0	516.7	832.3	1408.6	1653.1
127.5°	483.2	545.9	823.6	1313.9	1524.9
130°	502.7	565.4	819.5	1256.1	1447.9
132.5°	521.2	580.9	815.4	1207.4	1381.2
135°	546.3	605.3	809.2	1140.9	1286.3
137.5°	574.6	628.2	806.2	1085.0	1209.1
140°	589.9	642.6	804.1	1047.7	1156.8
142.5°	607.4	656.0	802.1	1014.6	1110.6
145°	633.5	677.4	799.0	971.2	1045.2
147.5°	658.7	697.1	796.2	934.7	992.1
150°	677.1	708.5	795.1	912.9	959.3
152.5°	691.5	720.9	794.1	894.2	932.6
155°	714.3	738.2	792.6	871.4	899.0
157.5°	735.4	753.7	792.8	854.8	873.6
160°	747.7	764.0	793.9	845.5	859.3
162.5°	757.9	772.2	794.9	837.2	848.0
165°	773.3	783.4	796.4	827.3	833.6
167.5°	785.1	791.2	797.7	821.3	823.4
170°	791.3	796.3	797.7	818.2	818.2
172.5°	796.4	799.4	797.7	814.1	813.1
175°	801.5	802.8	797.7	809.2	806.7
177.5°	803.6	802.6	797.4	804.6	802.6
180°	801.5	801.5	801.5	801.5	801.5

(END OF REPORT)