

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: P562695

Luminaire Tested: **SQ4-PC3-050U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562695
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-125D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

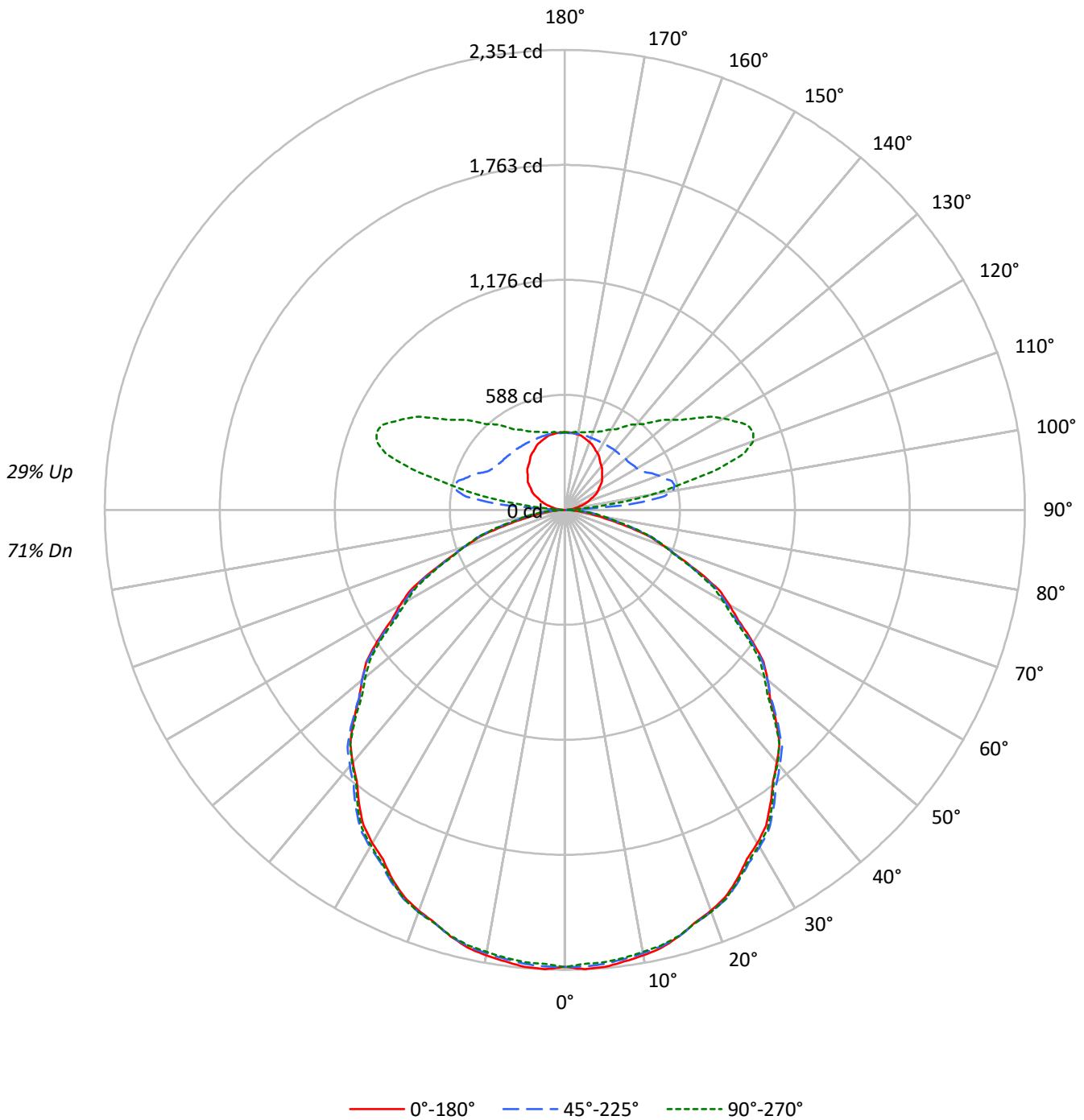
Lumens per Lamp: N/A
Luminaire Lumens: 8962.0 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 87.8
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71
1	103	98	94	91	97	93	90	86	84	81	79	75	73	71	67	65	64	60
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54	50
3	85	75	68	62	80	72	65	59	65	59	55	58	54	50	52	49	46	43
4	78	67	59	52	74	64	56	50	58	51	47	52	47	43	47	43	40	37
5	72	60	51	45	68	57	49	43	52	45	40	47	41	37	42	38	34	32
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	34	30	28
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	35	30	27	25
8	57	44	36	30	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	40	33	27	50	39	31	26	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20	18

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	2.5
10°-20°	634.6	7.1
20°-30°	961.1	10.7
30°-40°	1152.2	12.9
40°-50°	1174.9	13.1
50°-60°	1025.6	11.4
60°-70°	734.2	8.2
70°-80°	378.2	4.2
80°-90°	97.1	1.1
90°-100°	189.9	2.1
100°-110°	515.9	5.8
110°-120°	530.4	5.9
120°-130°	424.1	4.7
130°-140°	333.2	3.7
140°-150°	255.5	2.9
150°-160°	183.7	2.1
160°-170°	112.4	1.3
170°-180°	37.9	0.4
0°-30°	1816.9	20.3
0°-40°	2969.1	33.1
0°-60°	5169.5	57.7
0°-90°	6379.0	71.2
90°-120°	1236.2	13.8
90°-150°	2249.0	25.1
90°-180°	2583.0	28.8
0°-180°	8962.0	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°	1	5	9	11	11	4
95°	28	104	331	144	97	30
105°	92	143	567	864	813	97
115°	163	198	454	903	1029	161
125°	224	255	411	692	817	200
135°	270	300	399	564	636	209
145°	312	334	394	479	515	196
155°	352	365	392	430	443	162
165°	382	387	393	410	411	108
175°	396	397	394	399	398	38
180°	396	396	396	396	396	

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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°	14.1	30.1	36.4	36.8	33.4
90°	1.3	5.0	8.9	11.4	11.4
92.5°	11.4	52.0	90.3	38.8	32.8
95°	28.0	103.9	330.7	143.9	96.7
97.5°	46.3	114.7	507.0	394.5	277.0
100°	58.5	121.9	561.0	568.6	459.2
102.5°	70.7	129.2	575.2	703.3	606.8
105°	91.6	142.6	567.3	863.8	812.8
107.5°	113.2	158.2	534.5	946.7	960.9
110°	128.5	169.5	510.1	963.0	1024.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.7	180.8	485.7	949.5	1041.3
115°	162.8	197.6	454.1	903.4	1029.1
117.5°	182.7	216.0	434.0	838.2	979.7
120°	195.9	228.2	424.9	794.4	934.9
122.5°	207.1	239.4	418.7	750.5	886.1
125°	223.9	255.0	410.9	692.3	816.6
127.5°	238.9	269.7	406.5	648.1	754.8
130°	248.0	277.9	404.5	620.4	716.1
132.5°	257.2	287.1	402.5	596.7	681.5
135°	269.7	299.5	399.4	563.9	636.0
137.5°	283.2	310.3	397.9	534.9	595.6
140°	291.3	317.4	396.9	516.4	571.1
142.5°	299.4	323.6	395.9	502.0	547.7
145°	311.6	334.0	394.3	479.1	515.2
147.5°	325.4	344.5	393.1	461.1	489.5
150°	334.5	350.7	393.1	450.8	473.2
152.5°	341.7	355.8	392.0	441.6	460.0
155°	352.3	364.8	391.8	430.2	442.7
157.5°	362.8	372.5	391.8	422.5	432.0
160°	368.9	377.6	391.8	417.4	424.9
162.5°	375.0	381.7	392.8	413.3	418.7
165°	381.6	386.6	393.1	409.6	410.9
167.5°	388.5	391.0	394.3	405.3	406.3
170°	390.5	393.0	394.3	403.2	403.2
172.5°	392.5	394.0	394.3	401.2	401.2
175°	395.6	396.8	394.3	399.4	398.1
177.5°	396.6	396.6	393.6	397.6	395.6
180°	395.6	395.6	395.6	395.6	395.6

(END OF REPORT)