

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: P562887

Luminaire Tested: **SQ4-PC3-0U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562887
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-125D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

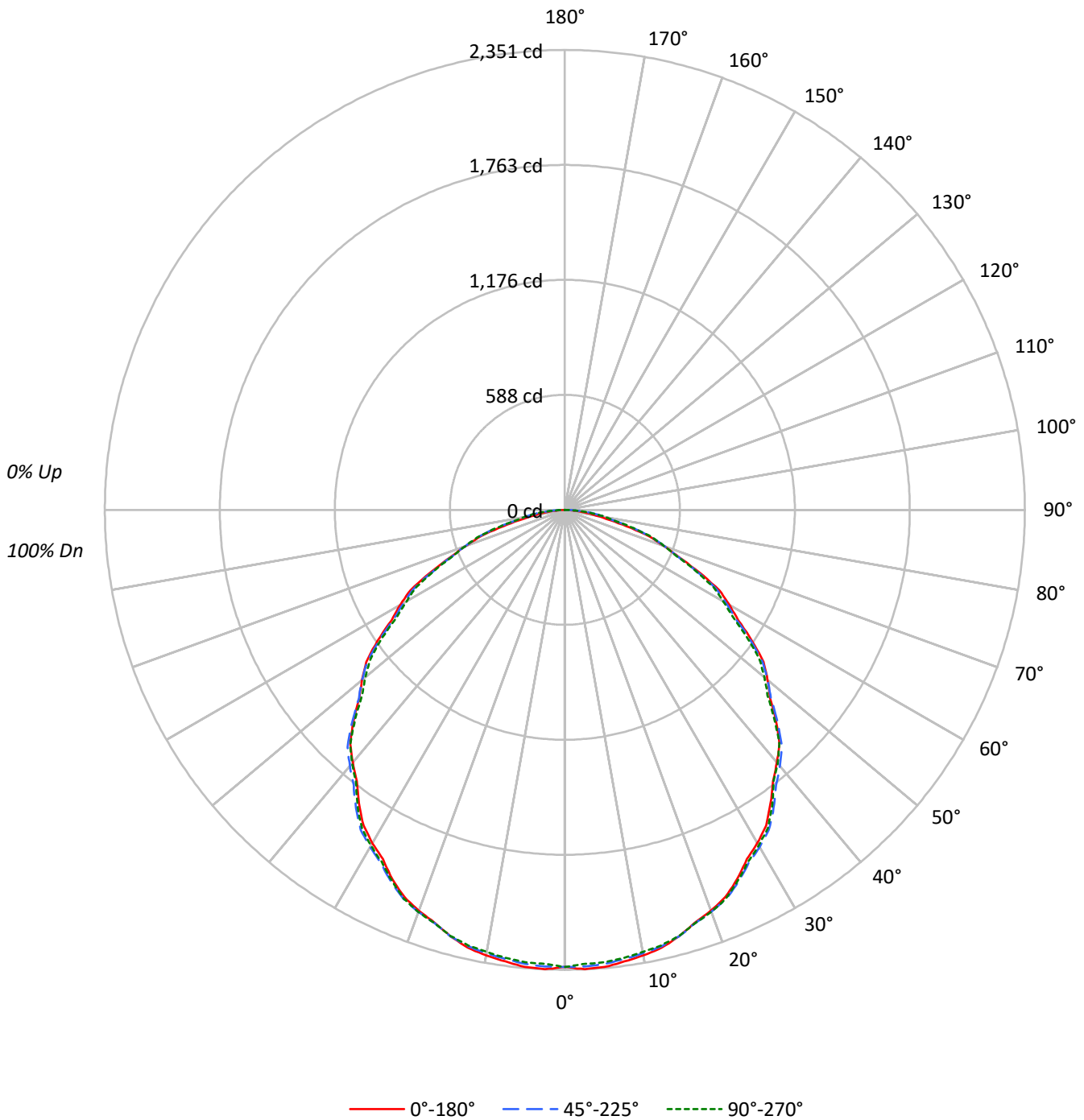
Lumens per Lamp: N/A
Luminaire Lumens: 6377.5 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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	3.5
10°-20°	634.6	10.0
20°-30°	961.1	15.1
30°-40°	1152.2	18.1
40°-50°	1174.9	18.4
50°-60°	1025.6	16.1
60°-70°	734.2	11.5
70°-80°	378.2	5.9
80°-90°	95.6	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1816.9	28.5
0°-40°	2969.1	46.6
0°-60°	5169.5	81.1
0°-90°	6377.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6377.5	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	67
90°	0	0	0	0	0	



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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°	13.8	29.1	34.6	34.5	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)