

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: P562672

Luminaire Tested: **SQ4-PC3-050U-100D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562672
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-100D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

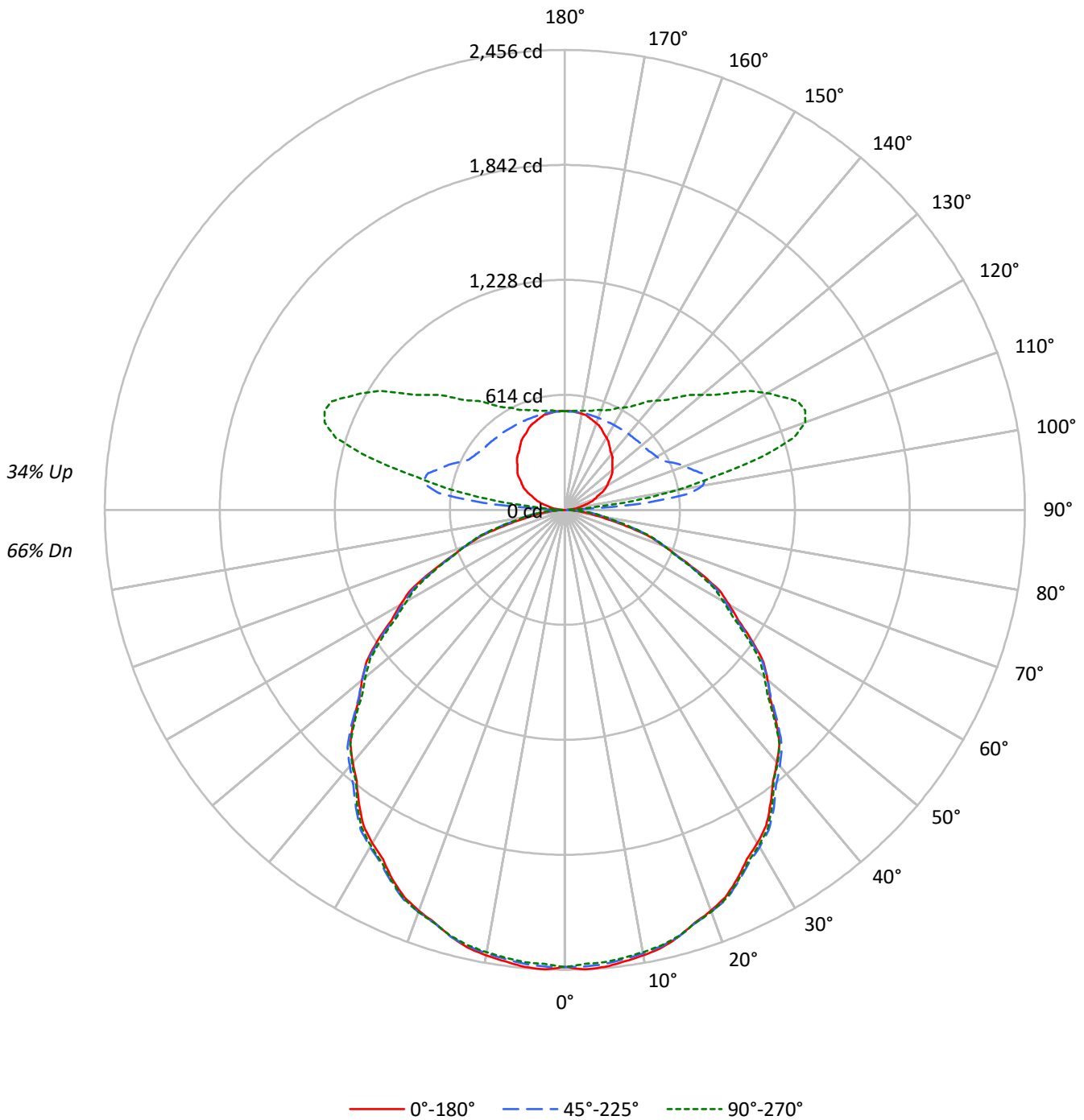
Lumens per Lamp: N/A
Luminaire Lumens: 10109.3 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 95.4
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66				
1	101	97	93	90	95	91	88	85	81	78	76	72	70	68	63	61	60	56				
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	55	53	51	47				
3	84	75	67	61	79	70	64	58	63	57	53	56	51	48	49	46	43	39				
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	44	40	37	34				
5	71	59	50	44	66	56	48	42	50	44	39	44	39	36	39	35	32	29				
6	65	53	44	38	61	50	43	37	45	39	34	40	35	31	36	32	28	26				
7	60	48	40	34	57	45	38	33	41	35	30	37	31	28	32	28	25	23				
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20				
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20	18				
10	49	36	29	24	46	35	28	23	32	26	22	28	23	20	26	21	18	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11263	11263	11263
5°	11348	11274	11233
10°	11320	11267	11236
15°	11261	11261	11250
20°	11187	11220	11220
25°	11081	11161	11127
30°	10946	11079	11031
35°	10783	10949	10872
40°	10605	10755	10646
45°	10412	10486	10324
50°	10140	10140	9978
55°	9819	9691	9545
60°	9344	9156	9010
65°	8636	8464	8390
70°	7561	7623	7592
75°	6085	6728	6769
80°	4325	5706	5765
85°	2631	4785	4785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.1	2.3
10°-20°	663.1	6.6
20°-30°	1004.2	9.9
30°-40°	1203.9	11.9
40°-50°	1227.5	12.1
50°-60°	1071.5	10.6
60°-70°	767.1	7.6
70°-80°	395.1	3.9
80°-90°	101.9	1.0
90°-100°	253.2	2.5
100°-110°	687.8	6.8
110°-120°	707.2	7.0
120°-130°	565.4	5.6
130°-140°	444.3	4.4
140°-150°	340.7	3.4
150°-160°	245.0	2.4
160°-170°	149.8	1.5
170°-180°	50.5	0.5
0°-30°	1898.3	18.8
0°-40°	3102.2	30.7
0°-60°	5401.2	53.4
0°-90°	6665.4	65.9
90°-120°	1648.3	16.3
90°-150°	2998.6	29.7
90°-180°	3444.0	34.1
0°-180°	10109.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2442	2442	2442	2442	2442	
5°	2451	2426	2435	2428	2426	233
15°	2358	2338	2358	2358	2356	665
25°	2177	2162	2193	2186	2186	1002
35°	1915	1910	1944	1931	1931	1198
45°	1596	1592	1607	1587	1582	1229
55°	1221	1205	1205	1187	1187	1088
65°	791	774	775	769	769	783
75°	341	357	378	380	380	369
85°	50	76	90	93	90	68
90°	2	7	12	15	15	5
95°	37	138	441	192	129	40
105°	122	190	756	1152	1084	130
115°	217	264	606	1205	1372	214
125°	298	340	548	923	1089	266
135°	360	399	532	752	848	278
145°	416	445	526	639	687	261
155°	470	486	522	574	590	217
165°	509	515	524	546	548	144
175°	528	529	526	532	531	50
180°	528	528	528	528	528	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2441.5	2441.5	2441.5	2441.5	2441.5
2.5°	2456.0	2434.8	2441.5	2435.9	2427.0
5°	2450.6	2426.2	2434.7	2427.9	2425.7
7.5°	2432.9	2408.6	2419.8	2415.2	2413.0
10°	2416.6	2392.3	2405.3	2400.8	2398.6
12.5°	2394.9	2372.4	2387.3	2382.7	2382.3
15°	2357.9	2338.0	2357.9	2357.8	2355.6
17.5°	2311.3	2293.2	2314.5	2315.8	2314.5
20°	2278.7	2258.9	2285.5	2283.3	2285.5
22.5°	2239.0	2222.6	2251.2	2245.3	2247.6
25°	2177.0	2161.5	2192.8	2186.1	2186.1
27.5°	2103.8	2092.7	2126.8	2119.6	2119.6
30°	2054.9	2043.9	2079.8	2070.8	2070.8
32.5°	2000.7	1993.2	2027.4	2016.5	2016.5
35°	1914.8	1910.4	1944.2	1930.6	1930.6
37.5°	1826.2	1822.2	1852.8	1836.4	1831.1
40°	1761.1	1758.8	1785.9	1767.8	1767.8
42.5°	1695.9	1693.7	1717.2	1695.5	1695.5
45°	1596.0	1591.6	1607.3	1586.9	1582.5
47.5°	1487.1	1482.6	1492.5	1470.3	1468.1
50°	1412.9	1408.5	1412.9	1392.5	1390.3
52.5°	1337.0	1329.0	1329.7	1309.4	1308.9
55°	1220.8	1205.3	1204.9	1186.8	1186.8
57.5°	1097.8	1077.4	1079.2	1063.8	1061.6
60°	1012.8	990.7	992.4	978.8	976.6
62.5°	929.6	903.9	909.2	893.9	893.4
65°	791.2	773.5	775.4	768.6	768.6
67.5°	658.3	641.9	653.8	648.3	647.9
70°	560.6	549.6	565.2	565.1	562.9
72.5°	470.2	469.8	489.2	489.2	490.6
75°	341.4	356.8	377.5	379.8	379.8
77.5°	227.9	255.3	278.1	279.0	278.5
80°	162.8	193.7	214.8	219.2	217.0
82.5°	110.3	143.0	160.5	165.0	162.8
85°	49.7	76.3	90.4	92.6	90.4
87.5°	14.8	31.7	38.5	39.1	35.6
90°	1.7	6.7	11.9	15.3	15.3
92.5°	15.3	69.3	120.4	51.7	43.8
95°	37.3	138.5	441.0	191.9	128.9
97.5°	61.7	152.9	676.0	525.9	369.4
100°	78.0	162.6	747.9	758.2	612.3
102.5°	94.3	172.2	766.9	937.7	809.0
105°	122.1	190.1	756.4	1151.7	1083.8
107.5°	150.9	211.0	712.7	1262.3	1281.2
110°	171.3	226.0	680.1	1284.0	1365.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.9	241.0	647.5	1266.0	1388.4
115°	217.1	263.5	605.5	1204.6	1372.1
117.5°	243.5	288.0	578.7	1117.6	1306.3
120°	261.2	304.3	566.5	1059.2	1246.6
122.5°	276.1	319.2	558.3	1000.7	1181.4
125°	298.5	340.0	547.8	923.0	1088.8
127.5°	318.5	359.6	542.0	864.1	1006.4
130°	330.7	370.5	539.3	827.2	954.9
132.5°	342.9	382.7	536.6	795.6	908.7
135°	359.6	399.4	532.5	751.8	848.0
137.5°	377.5	413.7	530.5	713.1	794.1
140°	388.4	423.2	529.2	688.5	761.5
142.5°	399.2	431.4	527.8	669.3	730.3
145°	415.5	445.4	525.8	638.8	686.9
147.5°	433.8	459.4	524.1	614.8	652.6
150°	446.1	467.6	524.1	601.1	630.9
152.5°	455.6	474.5	522.7	588.7	613.3
155°	469.8	486.4	522.4	573.6	590.2
157.5°	483.7	496.6	522.4	563.4	576.0
160°	491.8	503.5	522.4	556.5	566.5
162.5°	500.0	508.9	523.7	551.0	558.3
165°	508.8	515.4	524.1	546.2	547.8
167.5°	518.0	521.3	525.8	540.4	541.7
170°	520.7	524.0	525.8	537.6	537.6
172.5°	523.4	525.4	525.8	534.9	534.9
175°	527.5	529.1	525.8	532.5	530.9
177.5°	528.8	528.8	524.7	530.1	527.5
180°	527.5	527.5	527.5	527.5	527.5

(END OF REPORT)