

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: P562576

Luminaire Tested: **SQ4-PC3-025U-100D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562576
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-100D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

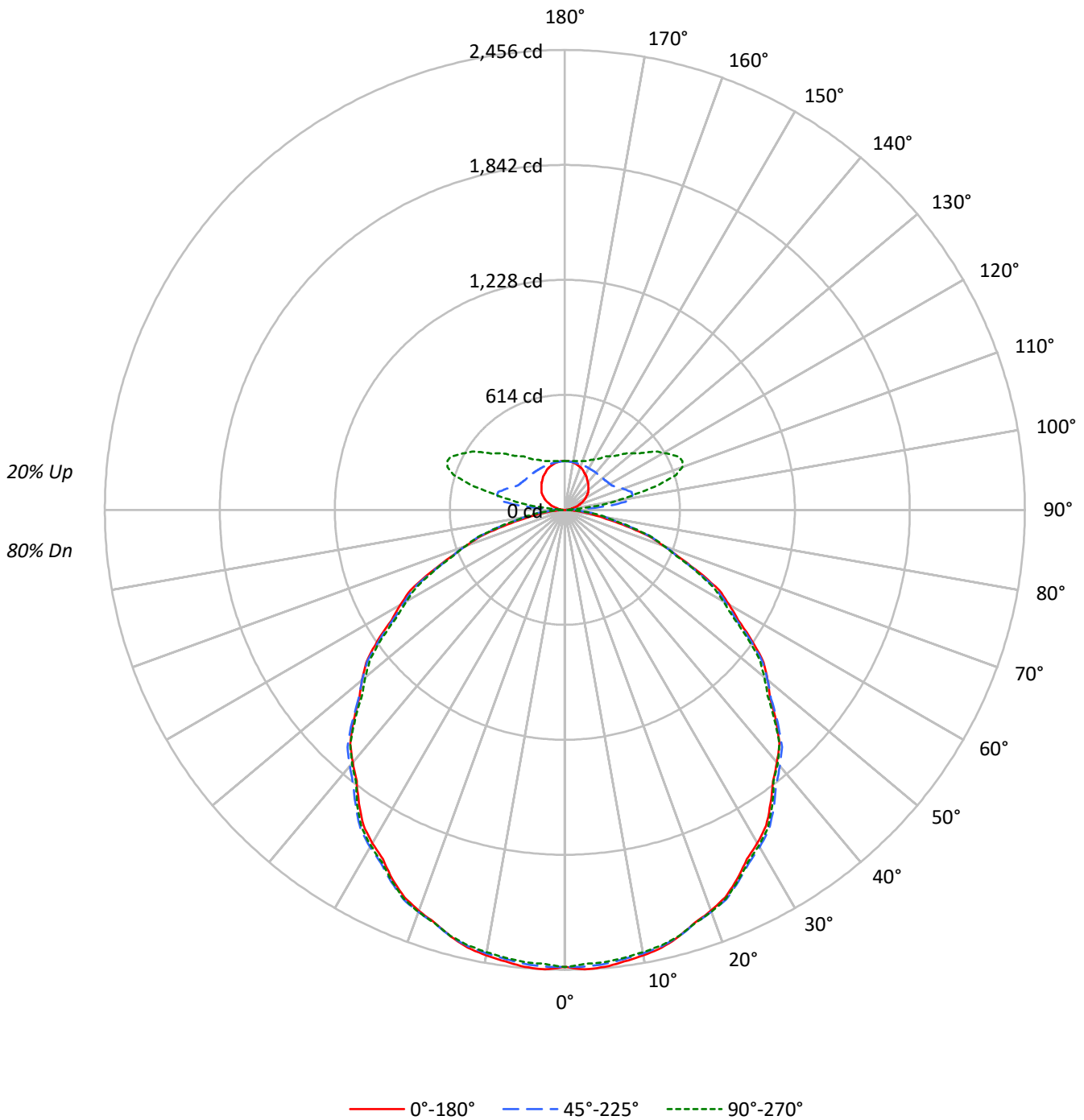
Lumens per Lamp: N/A
Luminaire Lumens: 8351.6 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 82.2
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80				
1	105	100	96	92	100	96	92	89	88	85	83	81	79	76	74	72	71	67				
2	95	87	81	76	91	84	78	73	77	72	68	71	67	64	65	62	60	57				
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51	48				
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	41				
5	73	61	52	46	70	59	51	45	54	48	42	50	45	40	46	42	38	35				
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	33	31				
7	63	50	41	35	60	48	40	34	44	38	33	41	36	31	38	33	30	27				
8	58	45	37	31	55	44	36	31	41	34	29	38	32	28	35	30	27	25				
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24	22				
10	51	38	30	25	49	37	30	25	34	28	24	32	27	23	30	25	22	20				

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	2.8
10°-20°	663.1	7.9
20°-30°	1004.2	12.0
30°-40°	1203.9	14.4
40°-50°	1227.5	14.7
50°-60°	1071.5	12.8
60°-70°	767.1	9.2
70°-80°	395.1	4.7
80°-90°	101.3	1.2
90°-100°	126.8	1.5
100°-110°	333.5	4.0
110°-120°	345.8	4.1
120°-130°	277.3	3.3
130°-140°	217.6	2.6
140°-150°	167.0	2.0
150°-160°	120.3	1.4
160°-170°	73.6	0.9
170°-180°	24.9	0.3
0°-30°	1898.3	22.7
0°-40°	3102.2	37.1
0°-60°	5401.2	64.7
0°-90°	6664.7	79.8
90°-120°	806.1	9.7
90°-150°	1468.1	17.6
90°-180°	1687.0	20.2
0°-180°	8351.6	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	5	13	7	7	3
95°	17	66	218	113	77	19
105°	60	91	369	560	522	64
115°	107	130	295	589	672	105
125°	148	166	269	454	536	132
135°	177	195	260	366	415	137
145°	205	218	257	312	337	129
155°	232	238	257	282	290	107
165°	250	254	257	267	270	71
175°	260	260	259	262	262	25
180°	260	260	260	260	260	

TEST NUMBER: P562576

CATALOG NUMBER: SQ4-PC3-025U-100D-940-1D-UNV-STD-W-8

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	31.4	38.8	37.4	33.9
90°	1.7	4.9	13.3	6.7	6.7
92.5°	7.0	33.8	74.7	33.1	21.4
95°	16.7	65.6	218.5	112.6	76.7
97.5°	29.0	72.1	327.0	260.0	191.5
100°	38.4	77.5	360.3	365.2	283.6
102.5°	46.4	82.9	369.7	454.9	385.0
105°	60.1	91.1	368.7	559.7	522.2
107.5°	74.1	102.8	347.7	614.1	623.3
110°	83.4	109.5	330.3	628.2	667.3



TEST NUMBER: P562576

CATALOG NUMBER: SQ4-PC3-025U-100D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.8	117.6	314.3	619.3	679.3
115°	106.8	129.6	295.3	589.1	672.3
117.5°	120.4	141.3	282.3	547.3	639.6
120°	128.5	148.0	276.9	519.2	608.9
122.5°	136.5	156.0	272.9	491.1	579.6
125°	148.5	166.4	268.6	454.0	535.5
127.5°	158.2	176.4	264.9	424.0	492.8
130°	163.5	183.1	263.6	405.2	468.8
132.5°	168.8	188.4	262.3	389.0	446.1
135°	176.8	194.8	260.3	366.5	415.4
137.5°	185.2	202.8	259.9	349.6	389.7
140°	191.9	208.2	258.6	336.2	373.7
142.5°	197.2	212.2	258.6	326.7	359.0
145°	205.2	218.2	256.9	312.5	337.0
147.5°	213.2	225.9	256.9	300.7	321.0
150°	218.5	230.0	256.9	294.0	310.3
152.5°	223.9	232.7	256.9	288.6	301.0
155°	231.9	238.4	256.9	282.1	290.3
157.5°	237.9	244.1	256.9	276.4	282.3
160°	241.9	246.8	256.9	273.7	276.9
162.5°	245.9	249.5	256.9	271.0	274.3
165°	250.2	253.5	256.9	267.0	270.3
167.5°	254.2	255.9	258.6	265.3	266.6
170°	256.9	258.5	258.6	265.3	265.3
172.5°	258.2	258.6	258.6	263.9	262.6
175°	260.3	260.3	258.6	261.9	261.9
177.5°	260.3	260.3	258.9	261.6	260.3
180°	260.3	260.3	260.3	260.3	260.3

(END OF REPORT)