

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: P562768

Luminaire Tested: **SQ4-PC3-075U-100D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562768
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PC3-075U-100D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

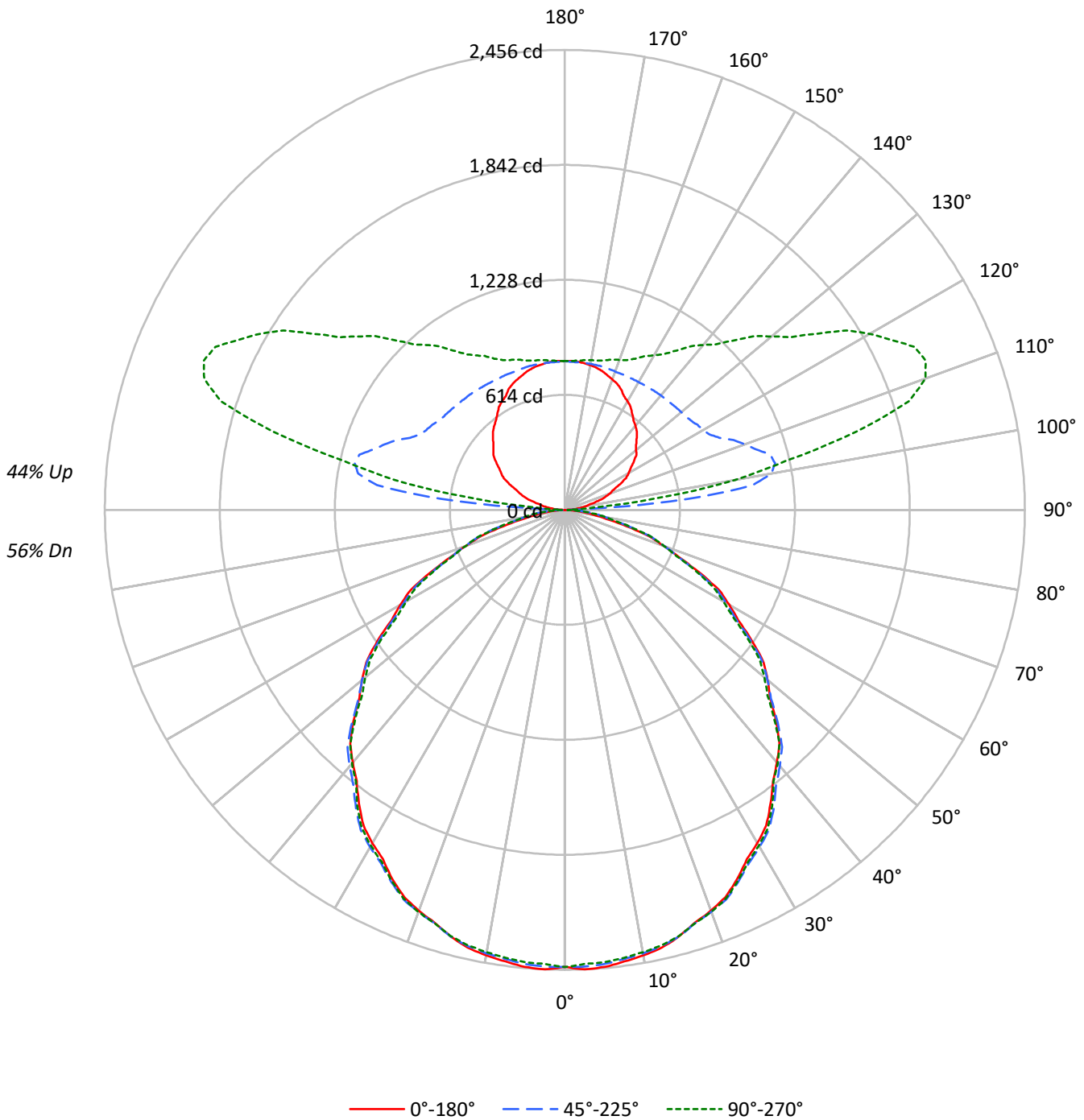
Lumens per Lamp: N/A
Luminaire Lumens: 11841.5 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 108.3
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	50	30	10	0	
RCR																						
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56				
1	99	95	91	88	92	88	85	82	76	74	72	65	63	62	55	54	52	48				
2	90	83	77	72	84	77	72	67	67	63	59	57	54	52	48	46	44	40				
3	82	73	65	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34				
4	75	64	56	50	70	60	53	48	52	47	42	45	41	37	38	35	32	29				
5	69	57	49	43	64	54	46	41	47	41	37	40	36	32	34	31	28	25				
6	64	52	43	37	59	48	41	36	42	36	32	36	32	28	31	28	25	22				
7	59	47	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22	19				
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20	17				
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18	16				
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14				

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	2.0
10°-20°	663.1	5.6
20°-30°	1004.2	8.5
30°-40°	1203.9	10.2
40°-50°	1227.5	10.4
50°-60°	1071.5	9.0
60°-70°	767.1	6.5
70°-80°	395.1	3.3
80°-90°	101.9	0.9
90°-100°	374.7	3.2
100°-110°	1031.0	8.7
110°-120°	1064.2	9.0
120°-130°	852.6	7.2
130°-140°	669.7	5.7
140°-150°	513.2	4.3
150°-160°	369.0	3.1
160°-170°	225.6	1.9
170°-180°	76.1	0.6
0°-30°	1898.3	16.0
0°-40°	3102.2	26.2
0°-60°	5401.2	45.6
0°-90°	6665.3	56.3
90°-120°	2470.0	20.9
90°-150°	4505.5	38.0
90°-180°	5176.0	43.7
0°-180°	11841.5	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	6
95°	56	205	663	283	181	59
105°	184	283	1136	1730	1614	194
115°	326	397	911	1814	2059	322
125°	450	512	827	1398	1638	401
135°	543	602	803	1131	1280	419
145°	627	670	791	964	1038	393
155°	710	733	786	866	891	326
165°	768	777	790	822	827	216
175°	794	796	791	801	800	75
180°	794	794	794	794	794	

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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	6.6	11.8	15.2	15.2
92.5°	23.3	99.7	172.8	66.3	54.4
95°	55.8	204.6	662.7	283.4	180.9
97.5°	90.9	226.8	1011.3	779.2	549.8
100°	116.6	240.6	1120.8	1131.3	923.0
102.5°	141.0	257.0	1149.2	1403.5	1212.4
105°	184.3	283.4	1136.0	1730.2	1614.4
107.5°	225.5	316.1	1071.5	1890.1	1924.5
110°	255.3	337.9	1022.8	1929.9	2048.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	282.3	362.3	974.1	1904.3	2085.4
115°	326.3	397.3	911.2	1814.4	2059.1
117.5°	368.2	433.7	871.3	1688.4	1965.1
120°	393.9	456.7	853.7	1593.9	1879.9
122.5°	416.9	479.7	841.5	1511.1	1782.5
125°	449.7	512.5	826.7	1398.4	1638.1
127.5°	480.8	540.6	816.9	1304.4	1514.7
130°	497.0	558.2	811.4	1248.6	1440.3
132.5°	515.9	577.1	807.4	1199.5	1372.7
135°	542.7	602.2	803.0	1131.0	1279.7
137.5°	567.7	622.9	799.3	1075.6	1198.2
140°	586.6	637.9	797.9	1038.8	1149.6
142.5°	602.8	650.1	795.2	1006.0	1100.9
145°	627.2	670.2	791.2	963.6	1038.0
147.5°	653.2	690.2	789.1	926.1	985.6
150°	669.4	702.5	787.8	905.5	951.8
152.5°	684.3	714.7	786.4	887.7	926.1
155°	710.0	733.2	786.1	866.1	890.9
157.5°	728.6	747.5	786.1	848.4	865.5
160°	742.1	757.0	786.1	838.8	852.0
162.5°	753.0	765.2	787.4	830.6	841.2
165°	767.5	777.4	789.5	821.7	826.7
167.5°	777.6	785.2	791.2	814.2	815.5
170°	784.4	789.4	791.2	811.4	811.4
172.5°	789.8	792.1	791.2	807.4	806.0
175°	794.5	796.2	791.2	801.3	799.6
177.5°	795.9	795.9	790.5	798.5	795.9
180°	794.5	794.5	794.5	794.5	794.5

(END OF REPORT)