

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: P562621

Luminaire Tested: **SQ4-PC3-050U-050D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562621
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-050D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

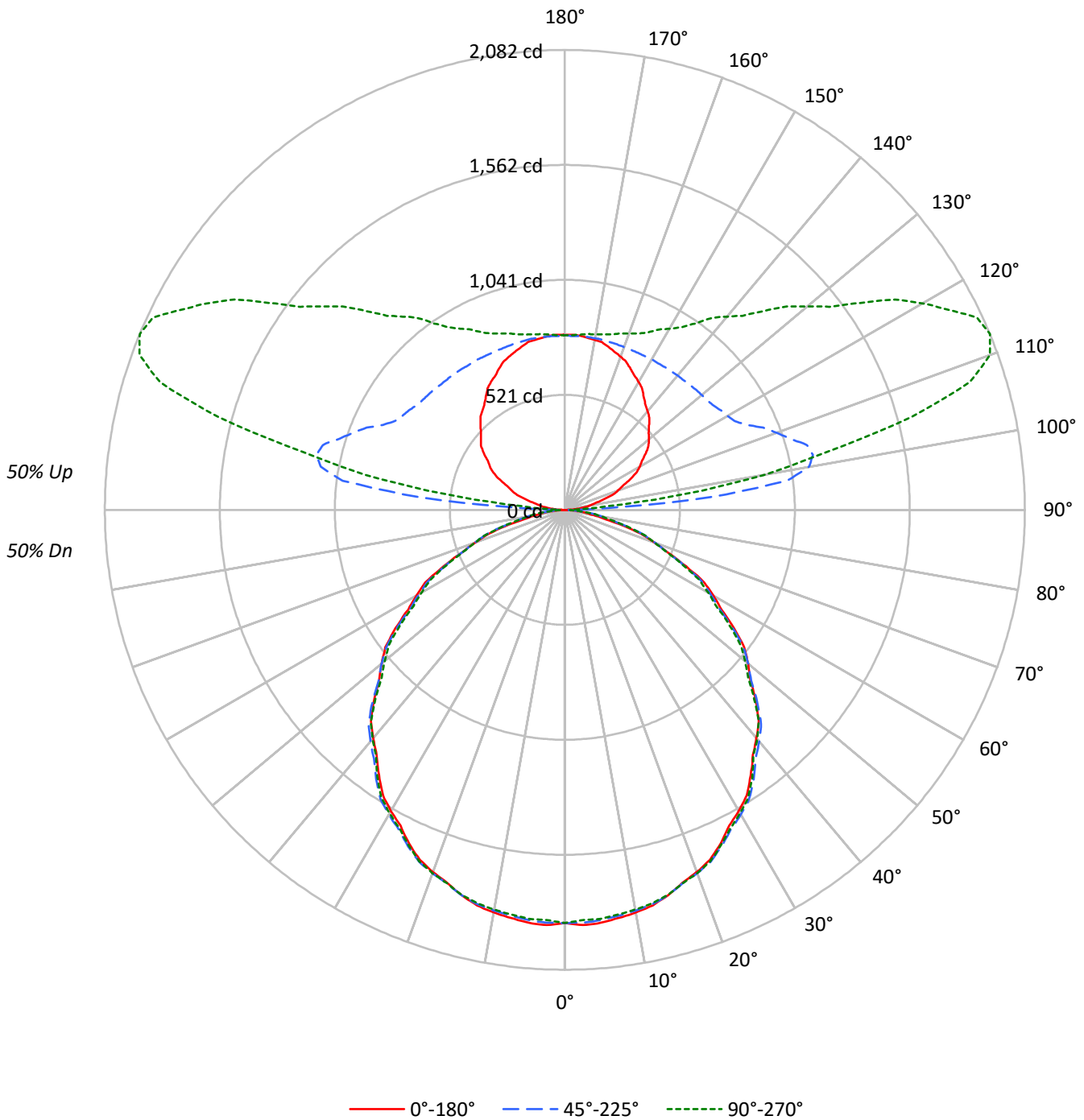
Lumens per Lamp: N/A
Luminaire Lumens: 10272.7 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 79.6
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	39	36	34	30
4	74	63	56	49	68	59	52	46	50	45	41	42	38	35	34	32	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5751	5751	5751
5°	5795	5757	5736
10°	5780	5754	5737
15°	5750	5750	5745
20°	5712	5729	5729
25°	5658	5699	5682
30°	5590	5657	5633
35°	5506	5591	5552
40°	5415	5492	5436
45°	5317	5354	5272
50°	5178	5178	5095
55°	5013	4948	4874
60°	4771	4676	4601
65°	4410	4322	4284
70°	3861	3893	3877
75°	3107	3436	3457
80°	2209	2913	2943
85°	1344	2445	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	1.7
10°-20°	507.9	4.9
20°-30°	769.1	7.5
30°-40°	922.1	9.0
40°-50°	940.2	9.2
50°-60°	820.7	8.0
60°-70°	587.6	5.7
70°-80°	302.6	2.9
80°-90°	79.6	0.8
90°-100°	379.8	3.7
100°-110°	1031.8	10.0
110°-120°	1060.8	10.3
120°-130°	848.2	8.3
130°-140°	666.4	6.5
140°-150°	511.0	5.0
150°-160°	367.5	3.6
160°-170°	224.7	2.2
170°-180°	75.7	0.7
0°-30°	1454.0	14.2
0°-40°	2376.1	23.1
0°-60°	4137.0	40.3
0°-90°	5106.8	49.7
90°-120°	2472.4	24.1
90°-150°	4498.0	43.8
90°-180°	5166.0	50.3
0°-180°	10272.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1870	1870	1870	1870	1870	
5°	1877	1858	1865	1860	1858	178
15°	1806	1791	1806	1806	1804	509
25°	1668	1656	1680	1674	1674	767
35°	1467	1463	1489	1479	1479	917
45°	1222	1219	1231	1216	1212	941
55°	935	923	923	909	909	833
65°	606	592	594	589	589	599
75°	262	273	289	291	291	283
85°	38	58	69	71	69	52
90°	2	10	18	23	23	5
95°	56	208	661	288	193	59
105°	183	285	1135	1728	1626	195
115°	326	395	908	1807	2058	321
125°	448	510	822	1384	1633	399
135°	539	599	799	1128	1272	417
145°	623	668	789	958	1030	391
155°	705	730	784	860	885	325
165°	763	773	786	819	822	215
175°	791	794	789	799	796	75
180°	791	791	791	791	791	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1870.1	1870.1	1870.1	1870.1	1870.1
2.5°	1881.2	1864.9	1870.1	1865.8	1859.0
5°	1877.0	1858.4	1864.9	1859.6	1858.0
7.5°	1863.5	1844.9	1853.5	1850.0	1848.3
10°	1851.0	1832.4	1842.4	1838.9	1837.2
12.5°	1834.4	1817.1	1828.5	1825.0	1824.7
15°	1806.0	1790.8	1806.0	1806.0	1804.3
17.5°	1770.3	1756.5	1772.8	1773.8	1772.8
20°	1745.4	1730.2	1750.6	1748.9	1750.6
22.5°	1714.9	1702.4	1724.3	1719.8	1721.5
25°	1667.5	1655.6	1679.6	1674.4	1674.4
27.5°	1611.4	1602.9	1629.0	1623.5	1623.5
30°	1574.0	1565.5	1593.0	1586.1	1586.1
32.5°	1532.4	1526.7	1552.9	1544.5	1544.5
35°	1466.6	1463.2	1489.1	1478.7	1478.7
37.5°	1398.7	1395.7	1419.2	1406.6	1402.6
40°	1348.9	1347.2	1367.9	1354.1	1354.1
42.5°	1299.0	1297.3	1315.3	1298.7	1298.7
45°	1222.5	1219.1	1231.1	1215.5	1212.1
47.5°	1139.0	1135.6	1143.2	1126.2	1124.5
50°	1082.2	1078.8	1082.2	1066.6	1064.9
52.5°	1024.0	1017.9	1018.5	1002.9	1002.6
55°	935.0	923.2	922.9	909.1	909.1
57.5°	840.8	825.3	826.6	814.8	813.1
60°	775.7	758.8	760.2	749.7	748.0
62.5°	712.0	692.4	696.4	684.6	684.3
65°	606.0	592.5	593.9	588.7	588.7
67.5°	504.2	491.7	500.8	496.6	496.3
70°	429.4	421.0	432.9	432.8	431.2
72.5°	360.2	359.8	374.7	374.7	375.7
75°	261.5	273.3	289.2	290.9	290.9
77.5°	174.5	195.5	213.0	213.7	213.3
80°	124.7	148.4	164.5	167.9	166.2
82.5°	84.5	109.6	122.9	126.4	124.7
85°	38.1	58.4	69.3	71.0	69.3
87.5°	11.6	25.3	31.3	32.2	29.5
90°	2.5	10.0	17.8	22.9	22.9
92.5°	22.9	104.0	180.6	77.6	65.6
95°	56.0	207.7	661.4	287.9	193.3
97.5°	92.6	229.4	1014.0	788.9	554.1
100°	117.0	243.9	1121.9	1137.3	918.4
102.5°	141.4	258.4	1150.4	1406.5	1213.5
105°	183.2	285.2	1134.6	1727.6	1625.6
107.5°	226.4	316.5	1069.0	1893.4	1921.8
110°	256.9	339.0	1020.2	1926.1	2047.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.4	361.5	971.3	1899.0	2082.5
115°	325.6	395.3	908.2	1806.9	2058.1
117.5°	365.3	432.0	868.0	1676.3	1959.4
120°	391.8	456.5	849.7	1588.8	1869.9
122.5°	414.2	478.8	837.5	1501.0	1772.2
125°	447.7	509.9	821.7	1384.5	1633.3
127.5°	477.8	539.5	813.1	1296.2	1509.6
130°	496.1	555.8	809.0	1240.8	1432.3
132.5°	514.4	574.1	804.9	1193.4	1363.1
135°	539.3	599.0	798.8	1127.7	1272.0
137.5°	566.3	620.5	795.8	1069.7	1191.1
140°	582.6	634.8	793.7	1032.8	1142.3
142.5°	598.9	647.1	791.7	1003.9	1095.5
145°	623.3	668.1	788.6	958.2	1030.3
147.5°	650.8	689.1	786.1	922.2	978.9
150°	669.1	701.4	786.1	901.6	946.4
152.5°	683.3	711.7	784.1	883.1	919.9
155°	704.7	729.6	783.6	860.4	885.3
157.5°	725.6	745.0	783.6	845.0	864.0
160°	737.8	755.2	783.6	834.8	849.7
162.5°	750.0	763.4	785.6	826.5	837.5
165°	763.2	773.2	786.1	819.2	821.7
167.5°	776.9	781.9	788.6	810.6	812.6
170°	781.0	786.0	788.6	806.5	806.5
172.5°	785.1	788.1	788.6	802.4	802.4
175°	791.2	793.7	788.6	798.8	796.3
177.5°	793.2	793.2	787.1	795.2	791.2
180°	791.2	791.2	791.2	791.2	791.2

(END OF REPORT)