

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: P565178

Luminaire Tested: **SQ4-PW1-150U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565178
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

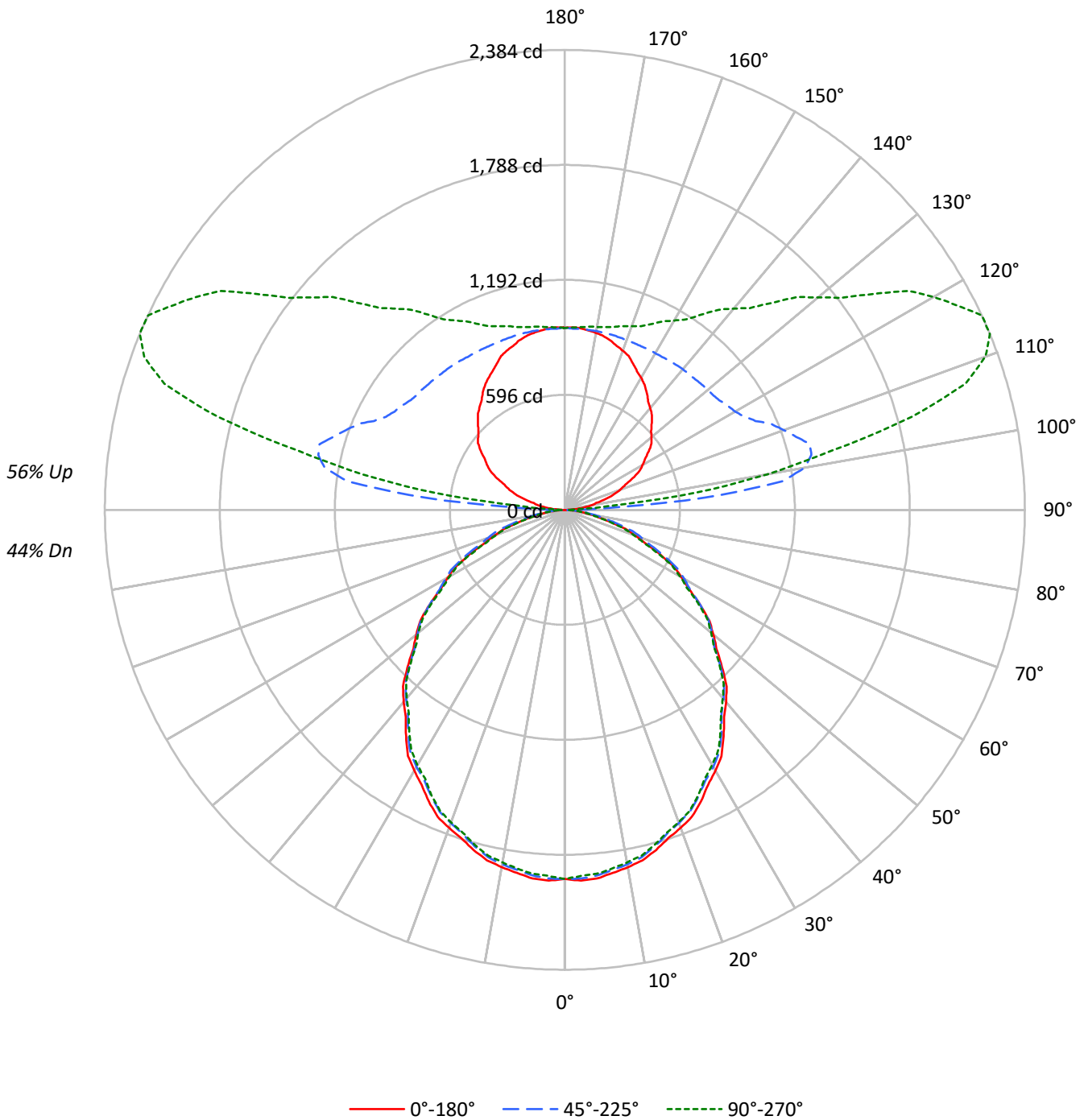
Lumens per Lamp: N/A
Luminaire Lumens: 10953.4 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.1
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	92	89	85	88	85	82	79	70	68	66	57	56	54	45	44	43	38
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	35	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	62	52	45	39	43	38	34	36	32	29	29	26	23	20
6	62	50	42	36	57	46	39	34	39	34	30	32	28	25	26	23	21	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	50	37	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	19	23	19	16	19	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17649	17649	17649
5°	17763	17623	17545
10°	17621	17479	17384
15°	17435	17241	17177
20°	17226	16961	16928
25°	16985	16677	16625
30°	16627	16375	16267
35°	16154	15926	15831
40°	15650	15407	15345
45°	15042	14843	14778
50°	14418	14297	14200
55°	13745	13745	13528
60°	12906	13155	12688
65°	11811	12400	11516
70°	10410	11411	10137
75°	8890	10213	8652
80°	6896	8597	6987
85°	4457	6606	5886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	1.6
10°-20°	508.6	4.6
20°-30°	754.4	6.9
30°-40°	882.7	8.1
40°-50°	878.7	8.0
50°-60°	758.8	6.9
60°-70°	546.2	5.0
70°-80°	286.4	2.6
80°-90°	73.0	0.7
90°-100°	438.6	4.0
100°-110°	1185.8	10.8
110°-120°	1246.8	11.4
120°-130°	1012.7	9.2
130°-140°	794.4	7.3
140°-150°	609.7	5.6
150°-160°	438.5	4.0
160°-170°	267.9	2.4
170°-180°	90.3	0.8
0°-30°	1443.0	13.2
0°-40°	2325.7	21.2
0°-60°	3963.3	36.2
0°-90°	4868.9	44.5
90°-120°	2871.2	26.2
90°-150°	5287.9	48.3
90°-180°	6085.0	55.6
0°-180°	10953.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1913	1913	1913	1913	1913	
5°	1918	1896	1903	1898	1894	182
15°	1825	1802	1805	1802	1798	514
25°	1668	1640	1638	1628	1633	767
35°	1434	1414	1414	1401	1406	897
45°	1153	1143	1138	1134	1133	889
55°	854	853	854	843	841	762
65°	541	558	568	546	528	536
75°	249	272	286	267	243	267
85°	42	55	62	59	56	56
90°	2	6	13	14	13	6
95°	68	239	729	378	224	71
105°	220	341	1316	1940	1861	232
115°	388	474	1091	2112	2384	383
125°	531	609	983	1659	1949	474
135°	637	712	957	1340	1517	492
145°	741	796	944	1147	1234	463
155°	836	869	936	1029	1063	386
165°	910	919	940	976	981	256
175°	945	944	941	953	951	90
180°	944	944	944	944	944	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1912.9	1912.9	1912.9	1912.9	1912.9
2.5°	1923.7	1907.9	1912.9	1908.6	1899.4
5°	1918.0	1896.5	1902.8	1897.7	1894.4
7.5°	1898.4	1878.6	1883.2	1877.8	1875.8
10°	1880.9	1861.1	1865.7	1858.9	1855.6
12.5°	1860.6	1839.6	1844.1	1837.3	1835.4
15°	1825.3	1802.2	1805.0	1801.6	1798.3
17.5°	1784.1	1760.7	1761.2	1755.8	1755.1
20°	1754.5	1729.8	1727.5	1720.8	1724.1
22.5°	1722.1	1696.1	1693.8	1684.5	1689.1
25°	1668.5	1640.5	1638.2	1628.2	1633.1
27.5°	1606.5	1578.8	1578.9	1564.8	1570.1
30°	1560.7	1534.3	1537.1	1520.4	1526.9
32.5°	1512.1	1488.4	1489.9	1473.2	1479.8
35°	1434.2	1414.5	1414.0	1400.7	1405.6
37.5°	1354.7	1337.2	1334.5	1326.8	1328.1
40°	1299.4	1284.6	1279.2	1274.1	1274.1
42.5°	1241.4	1227.9	1222.6	1218.8	1217.5
45°	1152.8	1142.9	1137.6	1134.2	1132.6
47.5°	1065.2	1055.9	1051.3	1048.9	1047.3
50°	1004.5	997.9	996.1	991.0	989.3
52.5°	943.8	939.9	938.1	931.6	930.0
55°	854.5	852.8	854.5	842.6	841.0
57.5°	761.5	764.1	769.5	753.6	749.7
60°	699.4	706.0	712.9	694.2	687.6
62.5°	636.1	646.6	656.3	634.8	625.6
65°	541.0	557.5	568.0	545.6	527.5
67.5°	449.3	469.8	482.4	458.3	437.9
70°	385.9	409.0	423.0	398.9	375.8
72.5°	330.7	356.4	367.7	345.0	321.9
75°	249.4	272.5	286.5	267.4	242.7
77.5°	177.0	198.7	210.3	193.7	173.3
80°	129.8	152.8	161.8	147.9	131.5
82.5°	92.0	111.1	117.3	109.0	97.8
85°	42.1	55.3	62.4	58.9	55.6
87.5°	11.2	21.2	28.3	28.5	29.6
90°	2.0	6.0	13.2	14.2	13.2
92.5°	28.9	105.1	207.4	90.0	65.2
95°	68.1	238.9	729.4	377.5	224.5
97.5°	109.3	274.0	1136.9	940.9	691.0
100°	140.2	288.2	1263.7	1317.9	1065.6
102.5°	168.6	307.9	1308.4	1603.8	1415.1
105°	220.4	340.6	1315.5	1940.5	1861.0
107.5°	268.4	378.0	1258.0	2150.6	2177.0
110°	305.8	405.1	1206.8	2207.0	2319.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	339.1	432.1	1159.7	2195.7	2384.2
115°	388.1	474.5	1091.0	2112.1	2384.2
117.5°	436.0	517.1	1045.7	1984.3	2292.8
120°	465.3	544.7	1018.9	1892.6	2207.5
122.5°	492.9	570.8	1002.6	1794.3	2111.6
125°	531.3	608.8	983.3	1659.4	1949.4
127.5°	566.6	642.7	972.0	1549.3	1804.4
130°	586.1	664.6	967.1	1481.3	1711.7
132.5°	606.5	684.1	962.2	1419.9	1632.1
135°	636.9	712.4	956.9	1339.9	1516.7
137.5°	667.6	738.9	952.5	1274.9	1418.9
140°	688.7	755.3	950.8	1233.1	1361.2
142.5°	709.1	771.6	947.6	1195.4	1307.6
145°	740.6	796.2	943.7	1146.9	1234.3
147.5°	769.2	818.5	939.3	1102.9	1170.1
150°	790.3	834.0	937.6	1079.0	1132.7
152.5°	809.8	848.0	936.8	1056.9	1101.0
155°	836.0	868.8	935.6	1028.8	1062.6
157.5°	863.3	886.1	935.8	1009.2	1031.5
160°	878.7	897.6	936.6	996.9	1012.8
162.5°	890.9	906.6	937.4	987.1	999.0
165°	910.2	919.1	939.7	976.3	981.3
167.5°	923.4	929.6	939.9	967.1	969.5
170°	931.5	934.5	940.7	963.0	963.0
172.5°	938.0	938.6	940.7	958.1	957.3
175°	944.7	943.8	940.7	952.8	950.8
177.5°	947.0	944.6	940.5	948.6	946.2
180°	943.7	943.7	943.7	943.7	943.7

(END OF REPORT)