

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: P565174

Luminaire Tested: **SQ4-PW1-150U-125D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565174
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

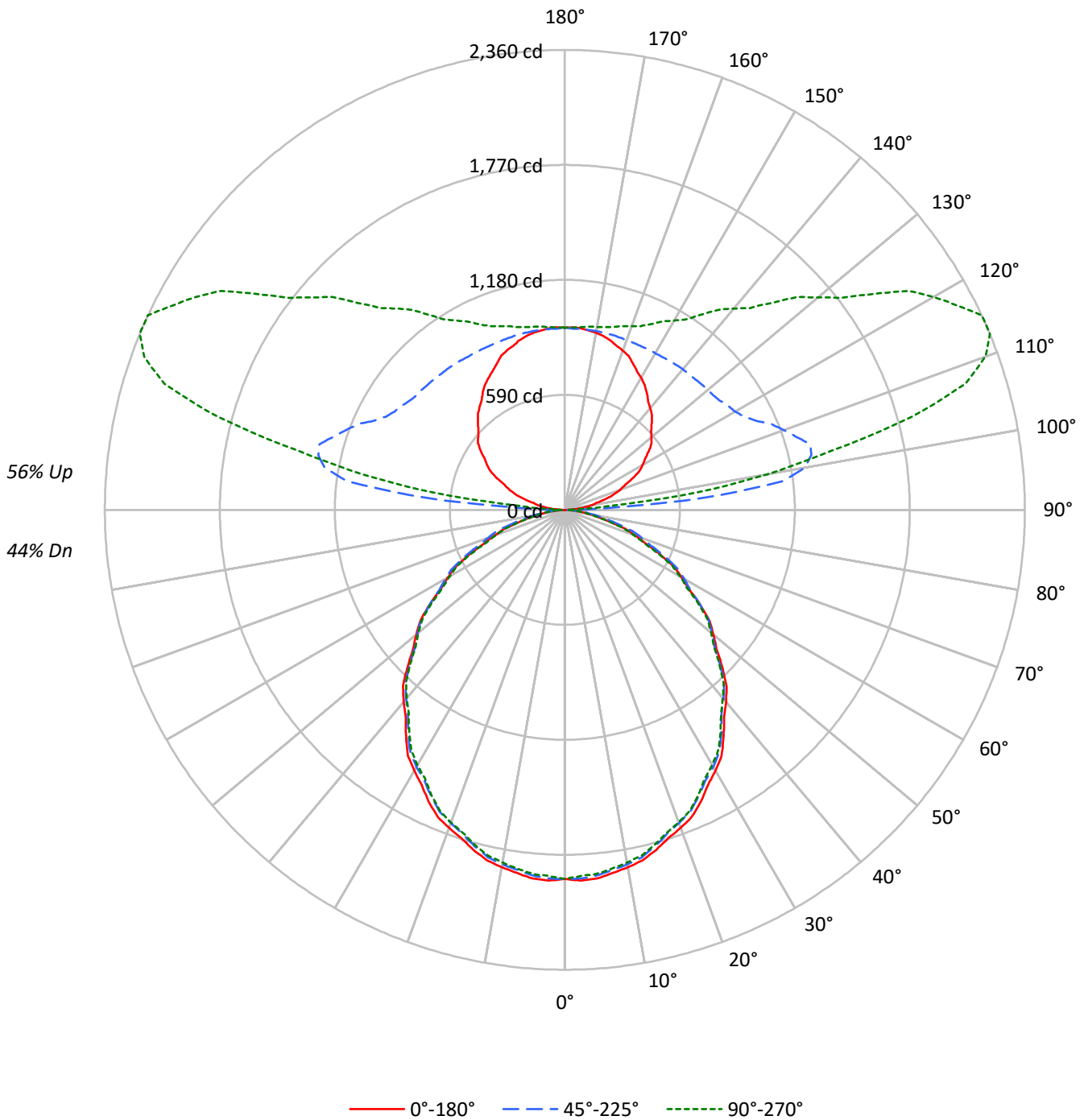
Lumens per Lamp: N/A
Luminaire Lumens: 10844.3 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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°	17473	17473	17473
5°	17586	17447	17370
10°	17445	17305	17211
15°	17261	17069	17006
20°	17054	16792	16760
25°	16816	16511	16460
30°	16461	16211	16105
35°	15994	15767	15674
40°	15495	15254	15192
45°	14891	14696	14631
50°	14274	14154	14059
55°	13608	13608	13393
60°	12778	13024	12562
65°	11693	12276	11402
70°	10307	11297	10038
75°	8801	10113	8566
80°	6827	8512	6912
85°	4414	6531	5833



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.3	1.6
10°-20°	503.5	4.6
20°-30°	746.8	6.9
30°-40°	873.9	8.1
40°-50°	870.0	8.0
50°-60°	751.3	6.9
60°-70°	540.8	5.0
70°-80°	283.6	2.6
80°-90°	72.3	0.7
90°-100°	434.2	4.0
100°-110°	1174.0	10.8
110°-120°	1234.3	11.4
120°-130°	1002.6	9.2
130°-140°	786.5	7.3
140°-150°	603.6	5.6
150°-160°	434.1	4.0
160°-170°	265.2	2.4
170°-180°	89.4	0.8
0°-30°	1428.7	13.2
0°-40°	2302.5	21.2
0°-60°	3923.8	36.2
0°-90°	4820.4	44.5
90°-120°	2842.6	26.2
90°-150°	5235.3	48.3
90°-180°	6024.0	55.5
0°-180°	10844.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1894	1894	1894	1894	1894	
5°	1899	1878	1884	1879	1876	180
15°	1807	1784	1787	1784	1780	509
25°	1652	1624	1622	1612	1617	760
35°	1420	1400	1400	1387	1392	888
45°	1141	1132	1126	1123	1121	881
55°	846	844	846	834	833	755
65°	536	552	562	540	522	531
75°	247	270	284	265	240	265
85°	42	55	62	58	55	55
90°	2	6	13	14	13	6
95°	67	236	722	374	222	71
105°	218	337	1302	1921	1842	230
115°	384	470	1080	2091	2360	379
125°	526	603	974	1643	1930	469
135°	631	705	947	1326	1502	487
145°	733	788	934	1135	1222	459
155°	828	860	926	1019	1052	382
165°	901	910	930	967	972	254
175°	935	934	931	943	941	89
180°	934	934	934	934	934	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1893.8	1893.8	1893.8	1893.8	1893.8
2.5°	1904.5	1888.9	1893.8	1889.6	1880.5
5°	1898.8	1877.6	1883.8	1878.7	1875.5
7.5°	1879.5	1859.9	1864.5	1859.1	1857.1
10°	1862.1	1842.6	1847.1	1840.4	1837.1
12.5°	1842.1	1821.2	1825.8	1819.0	1817.1
15°	1807.1	1784.2	1787.0	1783.6	1780.4
17.5°	1766.4	1743.2	1743.7	1738.3	1737.7
20°	1737.0	1712.5	1710.3	1703.7	1707.0
22.5°	1705.0	1679.2	1676.9	1667.7	1672.3
25°	1651.9	1624.2	1621.9	1612.0	1616.9
27.5°	1590.5	1563.1	1563.1	1549.2	1554.4
30°	1545.1	1519.0	1521.7	1505.2	1511.7
32.5°	1497.0	1473.6	1475.0	1458.5	1465.0
35°	1420.0	1400.4	1399.9	1386.7	1391.6
37.5°	1341.2	1323.9	1321.2	1313.5	1314.8
40°	1286.5	1271.8	1266.5	1261.4	1261.4
42.5°	1229.1	1215.7	1210.4	1206.7	1205.4
45°	1141.3	1131.5	1126.3	1122.9	1121.3
47.5°	1054.5	1045.4	1040.9	1038.5	1036.9
50°	994.5	987.9	986.1	981.1	979.5
52.5°	934.4	930.5	928.7	922.4	920.7
55°	846.0	844.3	846.0	834.3	832.6
57.5°	753.9	756.5	761.9	746.1	742.2
60°	692.5	699.0	705.8	687.3	680.8
62.5°	629.7	640.2	649.7	628.5	619.4
65°	535.6	551.9	562.3	540.2	522.3
67.5°	444.8	465.1	477.5	453.7	433.5
70°	382.1	404.9	418.8	394.9	372.1
72.5°	327.4	352.8	364.1	341.5	318.7
75°	246.9	269.8	283.7	264.7	240.3
77.5°	175.2	196.7	208.2	191.8	171.5
80°	128.5	151.3	160.2	146.5	130.1
82.5°	91.1	110.0	116.1	107.9	96.8
85°	41.7	54.8	61.7	58.3	55.1
87.5°	11.1	21.0	28.0	28.2	29.3
90°	2.0	5.9	13.1	14.1	13.1
92.5°	28.6	104.1	205.4	89.2	64.6
95°	67.4	236.5	722.1	373.7	222.3
97.5°	108.2	271.3	1125.6	931.5	684.1
100°	138.8	285.3	1251.1	1304.8	1055.0
102.5°	167.0	304.8	1295.4	1587.8	1401.0
105°	218.2	337.2	1302.4	1921.2	1842.5
107.5°	265.7	374.3	1245.5	2129.1	2155.3
110°	302.7	401.1	1194.8	2185.0	2296.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.7	427.8	1148.1	2173.8	2360.5
115°	384.2	469.7	1080.2	2091.0	2360.5
117.5°	431.7	511.9	1035.3	1964.5	2269.9
120°	460.6	539.3	1008.8	1873.7	2185.5
122.5°	488.0	565.1	992.7	1776.4	2090.5
125°	526.0	602.7	973.6	1642.9	1930.0
127.5°	561.0	636.3	962.3	1533.9	1786.4
130°	580.3	658.0	957.5	1466.5	1694.7
132.5°	600.4	677.3	952.6	1405.8	1615.8
135°	630.6	705.3	947.4	1326.5	1501.6
137.5°	661.0	731.6	943.0	1262.2	1404.8
140°	681.9	747.8	941.4	1220.8	1347.7
142.5°	702.0	764.0	938.1	1183.5	1294.6
145°	733.2	788.2	934.3	1135.4	1222.0
147.5°	761.5	810.3	929.9	1091.9	1158.4
150°	782.5	825.7	928.3	1068.3	1121.4
152.5°	801.8	839.5	927.5	1046.4	1090.0
155°	827.7	860.2	926.3	1018.6	1052.0
157.5°	854.7	877.3	926.5	999.2	1021.2
160°	870.0	888.6	927.3	987.0	1002.7
162.5°	882.0	897.6	928.1	977.2	989.0
165°	901.1	910.0	930.3	966.6	971.5
167.5°	914.2	920.3	930.5	957.5	959.9
170°	922.3	925.2	931.3	953.4	953.4
172.5°	928.7	929.3	931.3	948.6	947.8
175°	935.3	934.3	931.3	943.3	941.4
177.5°	937.5	935.2	931.1	939.1	936.7
180°	934.3	934.3	934.3	934.3	934.3

(END OF REPORT)