

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: P565182

Luminaire Tested: **SQ4-PW1-150U-125D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565182
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-930-1D-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

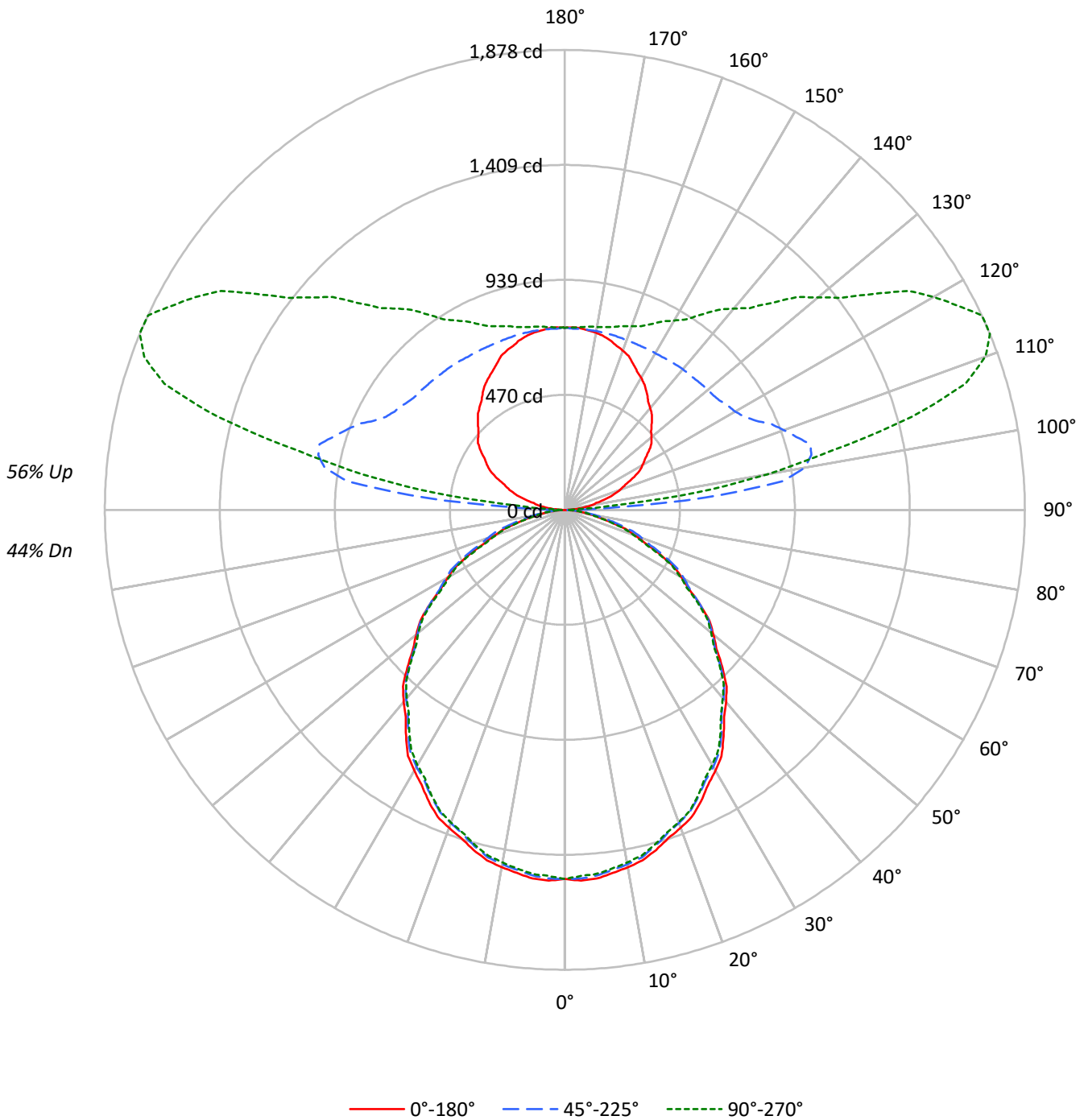
Lumens per Lamp: N/A
Luminaire Lumens: 8629.4 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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°	13904	13904	13904
5°	13994	13884	13822
10°	13882	13771	13696
15°	13735	13583	13532
20°	13571	13363	13336
25°	13382	13138	13098
30°	13098	12900	12816
35°	12726	12547	12473
40°	12329	12138	12090
45°	11850	11695	11643
50°	11359	11263	11187
55°	10829	10829	10658
60°	10167	10365	9996
65°	9304	9769	9073
70°	8203	8991	7987
75°	7005	8046	6816
80°	5430	6774	5504
85°	3515	5198	4637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	1.6
10°-20°	400.7	4.6
20°-30°	594.3	6.9
30°-40°	695.4	8.1
40°-50°	692.3	8.0
50°-60°	597.8	6.9
60°-70°	430.3	5.0
70°-80°	225.7	2.6
80°-90°	57.5	0.7
90°-100°	345.5	4.0
100°-110°	934.2	10.8
110°-120°	982.2	11.4
120°-130°	797.8	9.2
130°-140°	625.8	7.3
140°-150°	480.3	5.6
150°-160°	345.4	4.0
160°-170°	211.0	2.4
170°-180°	71.1	0.8
0°-30°	1136.9	13.2
0°-40°	1832.3	21.2
0°-60°	3122.4	36.2
0°-90°	3835.9	44.5
90°-120°	2262.0	26.2
90°-150°	4166.0	48.3
90°-180°	4794.0	55.6
0°-180°	8629.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1507	1507	1507	1507	1507	
5°	1511	1494	1499	1495	1492	143
15°	1438	1420	1422	1419	1417	405
25°	1314	1292	1291	1283	1287	604
35°	1130	1114	1114	1104	1107	706
45°	908	900	896	894	892	701
55°	673	672	673	664	663	601
65°	426	439	448	430	416	422
75°	196	215	226	211	191	211
85°	33	44	49	46	44	44
90°	2	5	10	11	10	5
95°	54	188	575	297	177	56
105°	174	268	1036	1529	1466	183
115°	306	374	860	1664	1878	302
125°	419	480	775	1307	1536	373
135°	502	561	754	1056	1195	388
145°	583	627	744	904	972	365
155°	659	684	737	810	837	304
165°	717	724	740	769	773	202
175°	744	744	741	751	749	71
180°	744	744	744	744	744	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1507.0	1507.0	1507.0	1507.0	1507.0
2.5°	1515.5	1503.1	1507.0	1503.7	1496.4
5°	1511.0	1494.1	1499.1	1495.0	1492.4
7.5°	1495.6	1480.0	1483.7	1479.4	1477.8
10°	1481.8	1466.2	1469.9	1464.5	1461.9
12.5°	1465.9	1449.3	1452.9	1447.5	1446.0
15°	1438.0	1419.8	1422.1	1419.3	1416.7
17.5°	1405.6	1387.2	1387.5	1383.3	1382.8
20°	1382.2	1362.7	1361.0	1355.7	1358.3
22.5°	1356.7	1336.2	1334.4	1327.1	1330.7
25°	1314.5	1292.4	1290.6	1282.7	1286.6
27.5°	1265.6	1243.8	1243.9	1232.8	1237.0
30°	1229.5	1208.8	1210.9	1197.8	1203.0
32.5°	1191.3	1172.6	1173.8	1160.6	1165.8
35°	1129.9	1114.4	1114.0	1103.5	1107.4
37.5°	1067.3	1053.5	1051.3	1045.3	1046.3
40°	1023.7	1012.0	1007.8	1003.8	1003.8
42.5°	978.0	967.4	963.2	960.2	959.2
45°	908.2	900.4	896.3	893.6	892.3
47.5°	839.2	831.9	828.3	826.4	825.1
50°	791.4	786.2	784.7	780.7	779.4
52.5°	743.6	740.4	739.0	734.0	732.7
55°	673.2	671.9	673.2	663.9	662.6
57.5°	599.9	602.0	606.3	593.7	590.6
60°	551.0	556.2	561.7	546.9	541.7
62.5°	501.1	509.4	517.0	500.1	492.9
65°	426.2	439.2	447.5	429.9	415.6
67.5°	354.0	370.1	380.0	361.1	345.0
70°	304.1	322.2	333.3	314.3	296.1
72.5°	260.5	280.8	289.7	271.8	253.6
75°	196.5	214.7	225.7	210.7	191.2
77.5°	139.4	156.6	165.7	152.6	136.5
80°	102.2	120.4	127.5	116.5	103.6
82.5°	72.5	87.6	92.4	85.8	77.0
85°	33.2	43.6	49.1	46.4	43.8
87.5°	8.8	16.7	22.3	22.4	23.3
90°	1.6	4.7	10.4	11.2	10.4
92.5°	22.7	82.8	163.4	70.9	51.4
95°	53.6	188.2	574.6	297.4	176.9
97.5°	86.1	215.9	895.7	741.3	544.4
100°	110.4	227.0	995.6	1038.3	839.5
102.5°	132.9	242.6	1030.8	1263.5	1114.8
105°	173.7	268.4	1036.4	1528.8	1466.2
107.5°	211.4	297.8	991.1	1694.3	1715.1
110°	240.9	319.1	950.8	1738.7	1827.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	267.1	340.4	913.6	1729.8	1878.3
115°	305.7	373.8	859.5	1663.9	1878.3
117.5°	343.5	407.4	823.8	1563.3	1806.3
120°	366.5	429.1	802.7	1491.0	1739.1
122.5°	388.3	449.7	789.9	1413.6	1663.5
125°	418.6	479.6	774.7	1307.3	1535.8
127.5°	446.4	506.4	765.7	1220.6	1421.5
130°	461.8	523.6	761.9	1167.0	1348.5
132.5°	477.8	539.0	758.1	1118.6	1285.8
135°	501.8	561.3	753.9	1055.6	1194.9
137.5°	526.0	582.2	750.4	1004.4	1117.9
140°	542.6	595.0	749.1	971.5	1072.4
142.5°	558.6	607.9	746.5	941.7	1030.2
145°	583.4	627.3	743.5	903.5	972.4
147.5°	606.0	644.8	740.0	868.9	921.8
150°	622.6	657.1	738.7	850.1	892.4
152.5°	638.0	668.1	738.1	832.6	867.4
155°	658.7	684.5	737.1	810.5	837.1
157.5°	680.1	698.1	737.3	795.1	812.6
160°	692.3	707.1	737.9	785.4	797.9
162.5°	701.9	714.2	738.5	777.6	787.0
165°	717.1	724.1	740.3	769.2	773.1
167.5°	727.5	732.3	740.5	761.9	763.8
170°	733.9	736.2	741.1	758.7	758.7
172.5°	739.0	739.5	741.1	754.8	754.2
175°	744.3	743.5	741.1	750.7	749.1
177.5°	746.1	744.2	740.9	747.3	745.4
180°	743.5	743.5	743.5	743.5	743.5

(END OF REPORT)