

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: P562417

Luminaire Tested: **SQ4-PW1-125U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562417
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PW1-125U-075D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

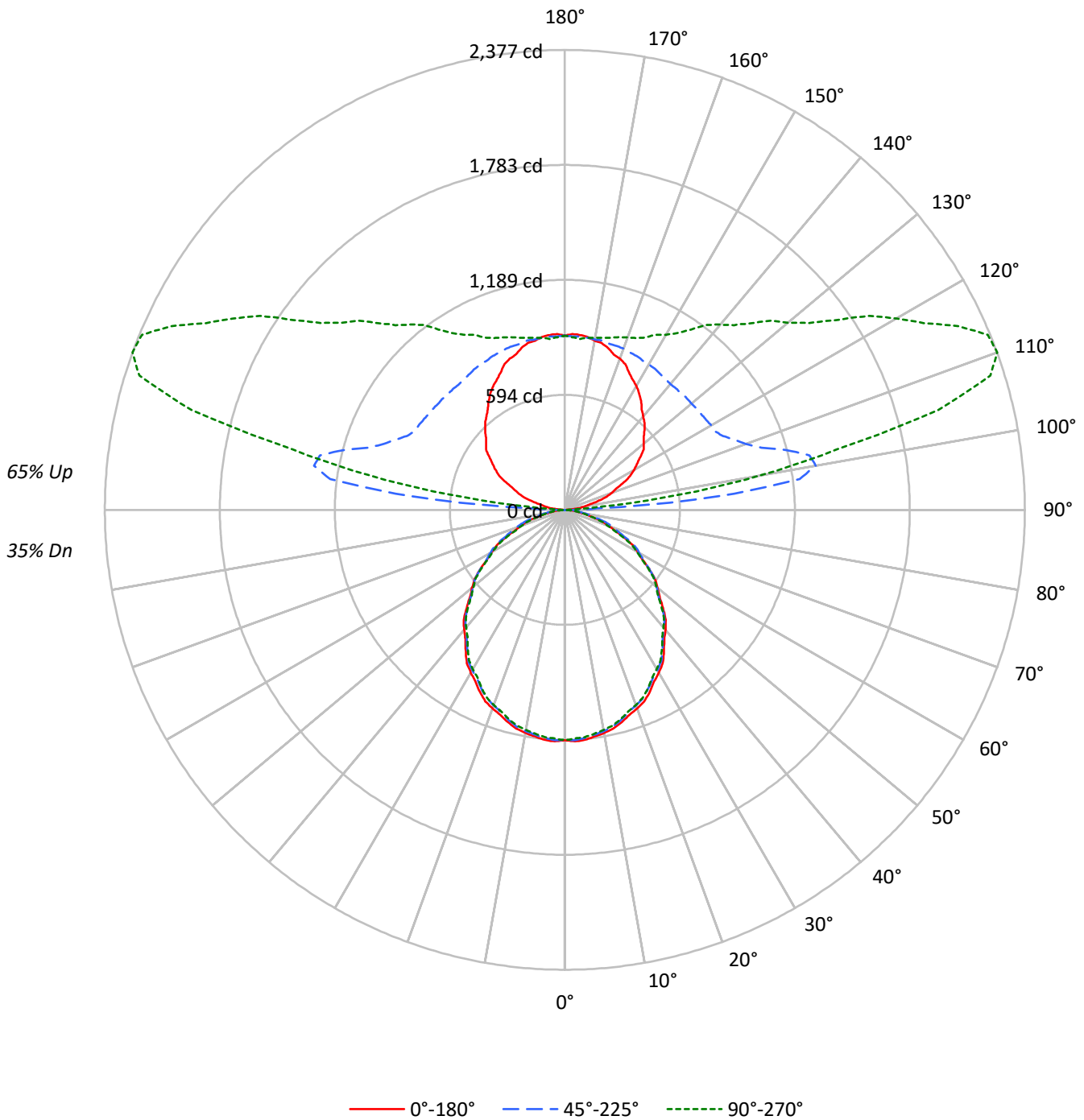
Lumens per Lamp: N/A
Luminaire Lumens: 8621.8 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 73.4
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35
1	95	90	87	83	85	82	79	76	66	64	62	51	50	48	38	37	36	30
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	33	32	30	25
3	79	69	62	57	71	63	57	52	51	47	43	40	37	34	29	28	26	21
4	72	61	54	48	65	56	49	44	45	40	37	35	32	29	26	24	22	18
5	66	55	47	41	59	50	43	38	40	35	31	32	28	25	24	21	19	16
6	61	49	41	35	55	44	38	33	36	31	27	29	25	22	21	19	17	14
7	56	44	36	31	50	40	33	29	33	28	24	26	22	20	20	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10986	10986	10986
5°	11057	10969	10921
10°	10969	10881	10822
15°	10853	10732	10692
20°	10723	10558	10537
25°	10573	10381	10349
30°	10350	10193	10126
35°	10056	9914	9855
40°	9742	9591	9552
45°	9363	9240	9199
50°	8975	8899	8839
55°	8556	8556	8421
60°	8034	8189	7898
65°	7353	7719	7169
70°	6480	7103	6312
75°	5536	6356	5386
80°	4293	5350	4346
85°	2774	4107	3663



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	1.3
10°-20°	316.6	3.7
20°-30°	469.6	5.4
30°-40°	549.4	6.4
40°-50°	547.0	6.3
50°-60°	472.3	5.5
60°-70°	340.0	3.9
70°-80°	178.3	2.1
80°-90°	44.2	0.5
90°-100°	410.2	4.8
100°-110°	1167.3	13.5
110°-120°	1118.4	13.0
120°-130°	885.2	10.3
130°-140°	710.5	8.2
140°-150°	556.2	6.5
150°-160°	407.0	4.7
160°-170°	252.1	2.9
170°-180°	85.5	1.0
0°-30°	898.3	10.4
0°-40°	1447.7	16.8
0°-60°	2467.0	28.6
0°-90°	3029.5	35.1
90°-120°	2695.9	31.3
90°-150°	4847.7	56.2
90°-180°	5592.0	64.9
0°-180°	8621.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1191	1191	1191	1191	1191	
5°	1194	1181	1184	1181	1179	113
15°	1136	1122	1124	1122	1119	320
25°	1039	1021	1020	1014	1017	478
35°	893	880	880	872	875	558
45°	718	711	708	706	705	554
55°	532	531	532	524	524	475
65°	337	347	354	340	328	334
75°	155	170	178	166	151	166
85°	26	34	39	37	35	35
90°	0	0	0	0	0	3
95°	44	177	794	275	169	51
105°	181	275	1190	2101	1997	192
115°	337	408	902	1911	2244	332
125°	476	528	861	1429	1708	426
135°	582	630	851	1207	1364	449
145°	686	722	858	1044	1138	429
155°	784	802	878	944	982	362
165°	866	869	888	907	921	244
175°	907	902	899	893	887	86
180°	900	900	900	900	900	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1190.7	1190.7	1190.7	1190.7	1190.7
2.5°	1197.5	1187.6	1190.7	1188.1	1182.3
5°	1193.9	1180.6	1184.4	1181.3	1179.2
7.5°	1181.7	1169.4	1172.3	1168.9	1167.7
10°	1170.8	1158.5	1161.4	1157.1	1155.1
12.5°	1158.2	1145.1	1147.9	1143.7	1142.5
15°	1136.2	1121.8	1123.6	1121.5	1119.4
17.5°	1110.6	1096.0	1096.3	1093.0	1092.5
20°	1092.1	1076.7	1075.3	1071.2	1073.2
22.5°	1072.0	1055.8	1054.4	1048.5	1051.4
25°	1038.6	1021.2	1019.7	1013.5	1016.6
27.5°	1000.0	982.8	982.8	974.1	977.4
30°	971.5	955.1	956.8	946.4	950.5
32.5°	941.3	926.5	927.4	917.0	921.1
35°	892.8	880.5	880.2	871.9	875.0
37.5°	843.3	832.4	830.7	825.9	826.7
40°	808.9	799.6	796.3	793.1	793.1
42.5°	772.8	764.4	761.0	758.7	757.9
45°	717.6	711.4	708.2	706.0	705.0
47.5°	663.0	657.3	654.4	652.9	651.9
50°	625.3	621.2	620.0	616.9	615.8
52.5°	587.5	585.0	583.9	579.9	578.9
55°	531.9	530.9	531.9	524.5	523.5
57.5°	474.0	475.6	479.0	469.1	466.6
60°	435.4	439.5	443.8	432.1	428.0
62.5°	395.9	402.5	408.5	395.2	389.4
65°	336.8	347.0	353.6	339.7	328.4
67.5°	279.7	292.4	300.3	285.3	272.6
70°	240.2	254.6	263.3	248.3	234.0
72.5°	205.8	221.8	228.9	214.7	200.4
75°	155.3	169.6	178.3	166.5	151.1
77.5°	110.2	123.7	130.9	120.6	107.8
80°	80.8	95.1	100.7	92.1	81.8
82.5°	57.3	69.2	73.0	67.8	60.8
85°	26.2	34.4	38.8	36.7	34.6
87.5°	6.7	12.5	15.9	16.0	16.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.7	72.6	168.4	49.0	37.0
95°	44.5	176.7	794.2	274.9	169.4
97.5°	81.8	207.0	1223.1	875.2	599.7
100°	107.8	225.0	1316.2	1333.2	1026.9
102.5°	136.6	244.4	1295.7	1706.5	1439.1
105°	181.4	275.1	1189.5	2101.2	1997.4
107.5°	227.0	311.0	1065.6	2212.4	2304.8
110°	258.4	337.1	994.4	2169.9	2377.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.6	363.2	946.5	2069.2	2365.0
115°	337.2	407.5	902.0	1910.8	2243.9
117.5°	380.0	445.9	875.6	1737.7	2090.5
120°	414.2	469.4	872.9	1638.8	1976.9
122.5°	441.6	496.8	866.1	1552.0	1866.0
125°	475.8	527.7	860.9	1428.7	1708.1
127.5°	513.1	561.7	858.2	1355.0	1585.3
130°	532.3	580.8	854.1	1303.6	1504.5
132.5°	552.8	600.0	854.1	1263.6	1448.3
135°	581.9	630.5	850.7	1206.8	1364.1
137.5°	609.3	656.5	850.3	1158.7	1294.6
140°	629.9	678.4	848.9	1118.9	1249.4
142.5°	653.1	693.6	853.0	1087.1	1204.3
145°	686.3	721.5	857.5	1044.5	1138.2
147.5°	714.8	748.9	865.0	1001.4	1082.4
150°	739.4	762.8	867.8	987.2	1044.1
152.5°	758.6	783.3	870.5	967.9	1020.8
155°	783.9	802.3	878.0	943.9	982.4
157.5°	815.4	826.4	879.7	933.1	960.5
160°	831.8	840.2	886.6	924.8	948.2
162.5°	841.4	851.1	888.0	917.8	935.9
165°	866.1	869.4	888.3	907.4	920.8
167.5°	882.8	879.8	896.2	904.9	910.2
170°	888.3	886.6	893.4	895.3	902.0
172.5°	900.6	894.9	897.5	892.5	897.9
175°	907.1	902.1	898.6	893.3	886.6
177.5°	909.9	901.8	897.5	892.1	893.4
180°	900.3	900.3	900.3	900.3	900.3

(END OF REPORT)