

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: P562066

Luminaire Tested: **SQ4-PR1-125U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562066
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-100D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1000 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: 9595.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

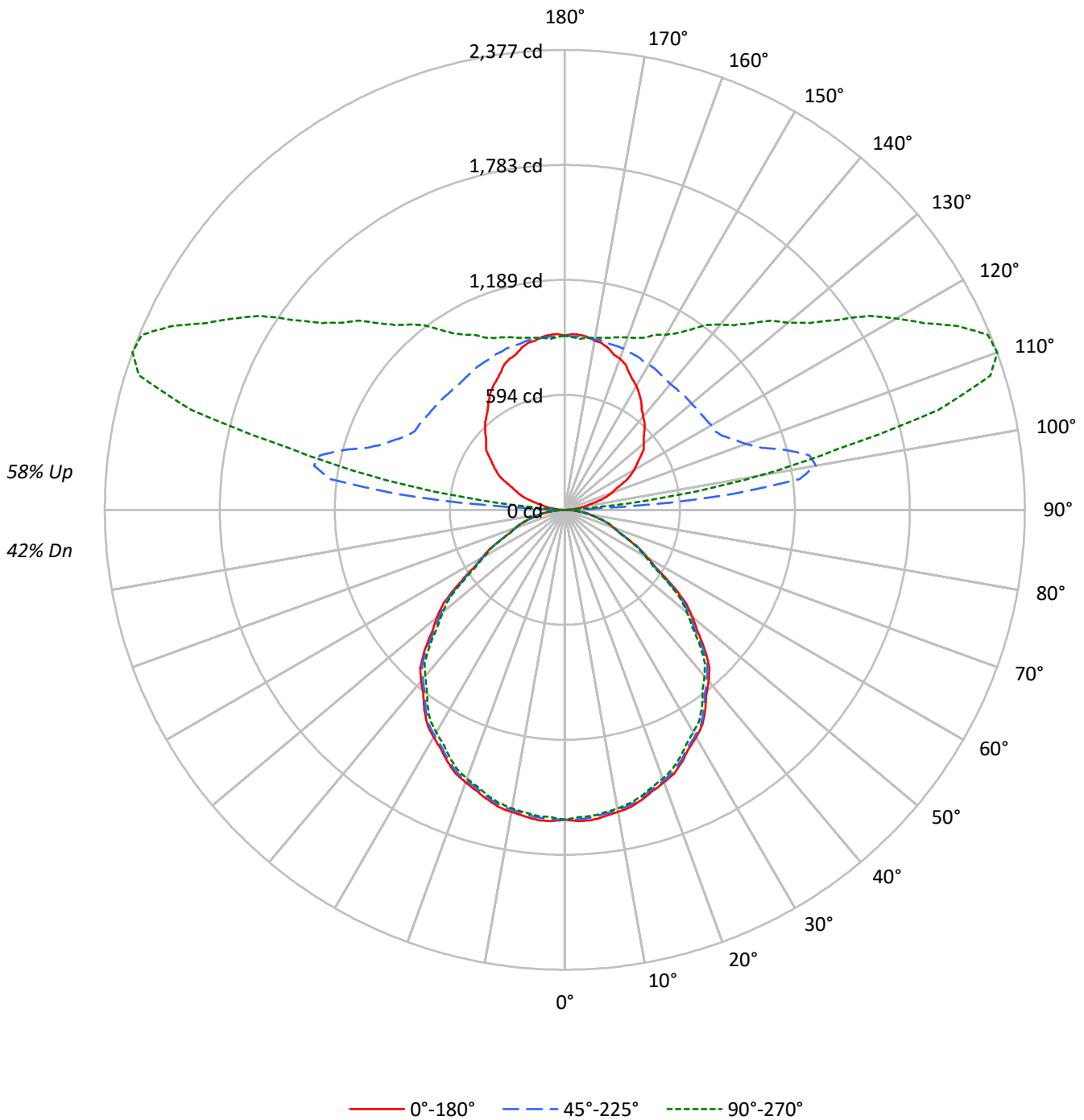
Input Watts (W): 83.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	88	81	75	70	80	74	69	64	61	57	54	49	47	45	38	37	35	30
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	20
6	62	50	42	37	56	46	39	34	39	33	30	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	49	38	31	27	32	27	23	26	22	20	21	18	16	14
9	50	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	34	27	23	42	32	26	21	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14773	14773	14773
5°	14905	14791	14715
10°	14858	14755	14678
15°	14794	14701	14622
20°	14719	14624	14515
25°	14615	14517	14349
30°	14458	14355	14149
35°	14244	14119	13918
40°	13919	13770	13521
45°	13352	13118	12848
50°	12353	12055	11817
55°	10782	10538	10316
60°	9084	9008	8831
65°	7859	7888	7829
70°	7219	7254	7254
75°	6933	6933	6980
80°	6519	6594	6519
85°	5251	5843	5843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	1.6
10°-20°	433.2	4.5
20°-30°	653.4	6.8
30°-40°	778.5	8.1
40°-50°	767.6	8.0
50°-60°	586.6	6.1
60°-70°	363.0	3.8
70°-80°	206.2	2.1
80°-90°	62.7	0.7
90°-100°	410.2	4.3
100°-110°	1167.3	12.2
110°-120°	1118.4	11.7
120°-130°	885.2	9.2
130°-140°	710.5	7.4
140°-150°	556.2	5.8
150°-160°	407.0	4.2
160°-170°	252.1	2.6
170°-180°	85.5	0.9
0°-30°	1238.0	12.9
0°-40°	2016.6	21.0
0°-60°	3370.8	35.1
0°-90°	4002.7	41.7
90°-120°	2695.9	28.1
90°-150°	4847.7	50.5
90°-180°	5592.0	58.3
0°-180°	9595.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1609	1592	1597	1592	1589	153
15°	1549	1533	1539	1534	1531	437
25°	1436	1418	1426	1411	1410	661
35°	1265	1250	1254	1237	1236	789
45°	1023	1010	1005	987	985	784
55°	670	660	655	644	641	601
65°	360	357	361	359	359	365
75°	194	194	194	196	196	205
85°	50	52	55	55	55	58
90°	0	0	0	0	0	4
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°	1601.2	1601.2	1601.2	1601.2	1601.2
2.5°	1611.1	1597.1	1601.2	1597.7	1590.1
5°	1609.4	1591.9	1597.0	1591.5	1588.8
7.5°	1597.0	1579.8	1584.9	1579.3	1577.7
10°	1586.0	1569.8	1575.0	1569.4	1566.7
12.5°	1573.9	1556.6	1562.8	1556.1	1553.4
15°	1548.8	1532.6	1539.1	1533.5	1530.8
17.5°	1521.2	1503.9	1510.4	1504.0	1500.5
20°	1499.1	1482.9	1489.5	1479.8	1478.4
22.5°	1474.8	1458.7	1465.2	1452.2	1451.9
25°	1435.7	1418.1	1426.0	1410.8	1409.5
27.5°	1389.1	1372.9	1379.4	1363.9	1362.3
30°	1357.1	1340.9	1347.4	1330.8	1328.1
32.5°	1320.7	1305.5	1311.0	1294.4	1292.8
35°	1264.7	1249.8	1253.6	1237.0	1235.7
37.5°	1200.9	1187.5	1189.6	1171.4	1170.1
40°	1155.7	1142.2	1143.3	1124.0	1122.6
42.5°	1106.1	1092.6	1091.4	1072.1	1070.8
45°	1023.3	1009.8	1005.4	987.4	984.7
47.5°	929.0	915.5	907.2	892.5	890.6
50°	860.6	847.1	839.9	827.4	823.3
52.5°	786.7	773.2	767.1	755.7	751.6
55°	670.3	659.5	655.1	644.0	641.3
57.5°	559.6	552.4	551.1	540.3	539.2
60°	492.3	488.3	488.2	478.6	478.6
62.5°	435.0	432.0	434.1	427.8	426.7
65°	360.0	357.3	361.3	358.6	358.6
67.5°	300.6	300.6	303.1	302.0	302.0
70°	267.6	267.6	268.9	268.9	268.9
72.5°	237.8	236.7	240.2	240.2	239.1
75°	194.5	194.5	194.5	195.8	195.8
77.5°	151.4	151.7	152.8	152.5	151.4
80°	122.7	124.1	124.1	122.7	122.7
82.5°	94.1	95.4	95.4	95.1	94.1
85°	49.6	52.3	55.2	55.2	55.2
87.5°	14.3	18.7	22.1	22.0	21.0
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)