

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: P563762

Luminaire Tested: **SQ4-PP3-150U-050D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563762
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-050D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

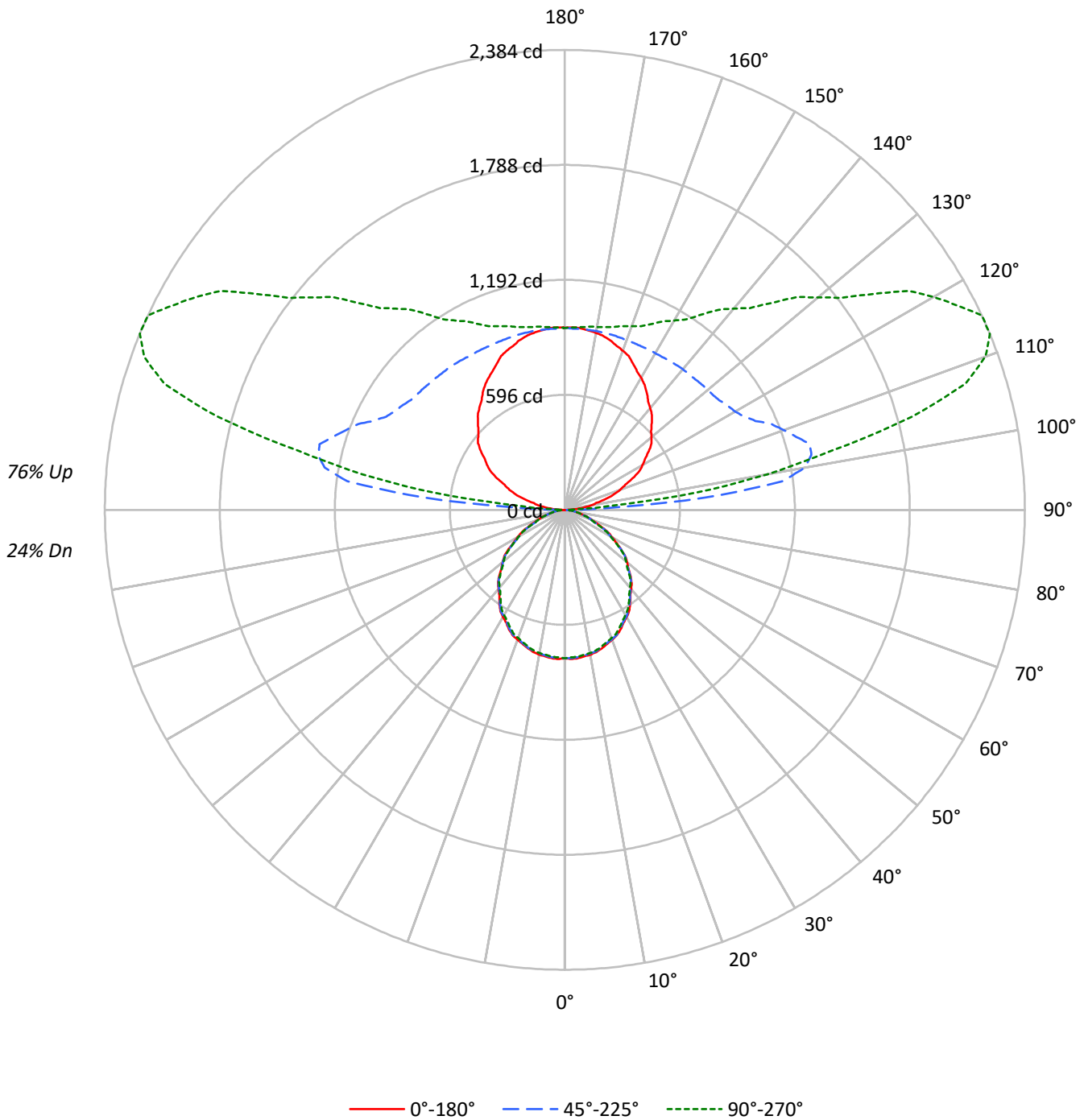
Lumens per Lamp: N/A
Luminaire Lumens: 8055.5 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	26	24	23	18
3	77	68	61	55	68	60	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	52	46	62	53	47	42	42	37	34	31	28	25	20	19	17	13
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	43	36	31	33	29	25	25	21	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8
9	47	35	28	23	42	32	25	21	25	20	17	19	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7098	7098	7098
5°	7150	7106	7081
10°	7138	7087	7055
15°	7090	7052	7013
20°	7044	7003	6950
25°	6960	6911	6843
30°	6831	6795	6709
35°	6652	6607	6524
40°	6440	6399	6325
45°	6263	6220	6159
50°	6038	6000	5942
55°	5726	5651	5607
60°	5213	5063	5039
65°	4593	4401	4386
70°	3965	3801	3801
75°	3411	3365	3315
80°	3007	3044	2975
85°	2350	2572	2572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	0.9
10°-20°	207.7	2.6
20°-30°	311.1	3.9
30°-40°	364.9	4.5
40°-50°	366.1	4.5
50°-60°	312.3	3.9
60°-70°	203.7	2.5
70°-80°	102.2	1.3
80°-90°	30.2	0.4
90°-100°	438.6	5.4
100°-110°	1185.8	14.7
110°-120°	1246.8	15.5
120°-130°	1012.7	12.6
130°-140°	794.4	9.9
140°-150°	609.7	7.6
150°-160°	438.5	5.4
160°-170°	267.9	3.3
170°-180°	90.3	1.1
0°-30°	591.6	7.3
0°-40°	956.5	11.9
0°-60°	1634.8	20.3
0°-90°	1970.9	24.5
90°-120°	2871.2	35.6
90°-150°	5287.9	65.6
90°-180°	6085.0	75.5
0°-180°	8055.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	772	765	767	765	765	73
15°	742	735	738	736	734	209
25°	684	676	679	673	672	314
35°	591	585	587	580	579	369
45°	480	477	477	472	472	370
55°	356	355	351	349	349	316
65°	210	206	202	200	201	210
75°	96	96	94	94	93	104
85°	22	24	24	24	24	26
90°	2	6	13	14	13	5
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°	769.3	769.3	769.3	769.3	769.3
2.5°	774.1	767.8	769.3	768.1	765.0
5°	772.0	764.7	767.3	764.6	764.6
7.5°	766.7	758.8	761.3	758.6	758.5
10°	761.9	754.0	756.5	753.8	753.1
12.5°	754.9	747.0	750.0	746.8	746.6
15°	742.3	735.1	738.3	735.5	734.2
17.5°	728.2	720.3	724.1	720.3	719.8
20°	717.4	709.5	713.3	707.9	707.9
22.5°	704.4	696.5	700.9	693.9	693.9
25°	683.7	675.8	678.9	672.9	672.2
27.5°	659.0	651.2	654.5	647.7	647.5
30°	641.2	633.9	637.8	630.4	629.7
32.5°	621.8	615.0	617.9	610.4	609.8
35°	590.6	584.7	586.6	579.8	579.2
37.5°	557.9	551.8	553.9	548.1	547.9
40°	534.7	530.7	531.3	526.5	525.2
42.5°	513.1	508.6	509.2	504.4	504.2
45°	480.0	476.8	476.7	472.0	472.0
47.5°	445.0	442.5	441.8	437.8	437.7
50°	420.7	418.7	418.0	414.6	414.0
52.5°	395.4	394.4	392.1	389.3	389.2
55°	356.0	354.7	351.3	349.2	348.6
57.5°	313.2	310.6	306.8	303.8	304.3
60°	282.5	279.9	274.4	273.1	273.1
62.5°	252.8	249.7	244.2	242.3	243.4
65°	210.4	206.4	201.6	200.3	200.9
67.5°	171.8	168.2	163.0	163.0	162.5
70°	147.0	145.0	140.9	140.9	140.9
72.5°	124.9	123.9	121.0	120.9	120.4
75°	95.7	95.7	94.4	93.7	93.0
77.5°	71.7	72.0	71.3	70.6	69.4
80°	56.6	58.0	57.3	56.6	56.0
82.5°	42.6	43.9	43.8	42.6	42.5
85°	22.2	24.2	24.3	24.3	24.3
87.5°	6.3	9.2	11.3	11.5	11.8
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)