

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: P563763

Luminaire Tested: **SQ4-PP3-150U-050D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563763
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-6
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

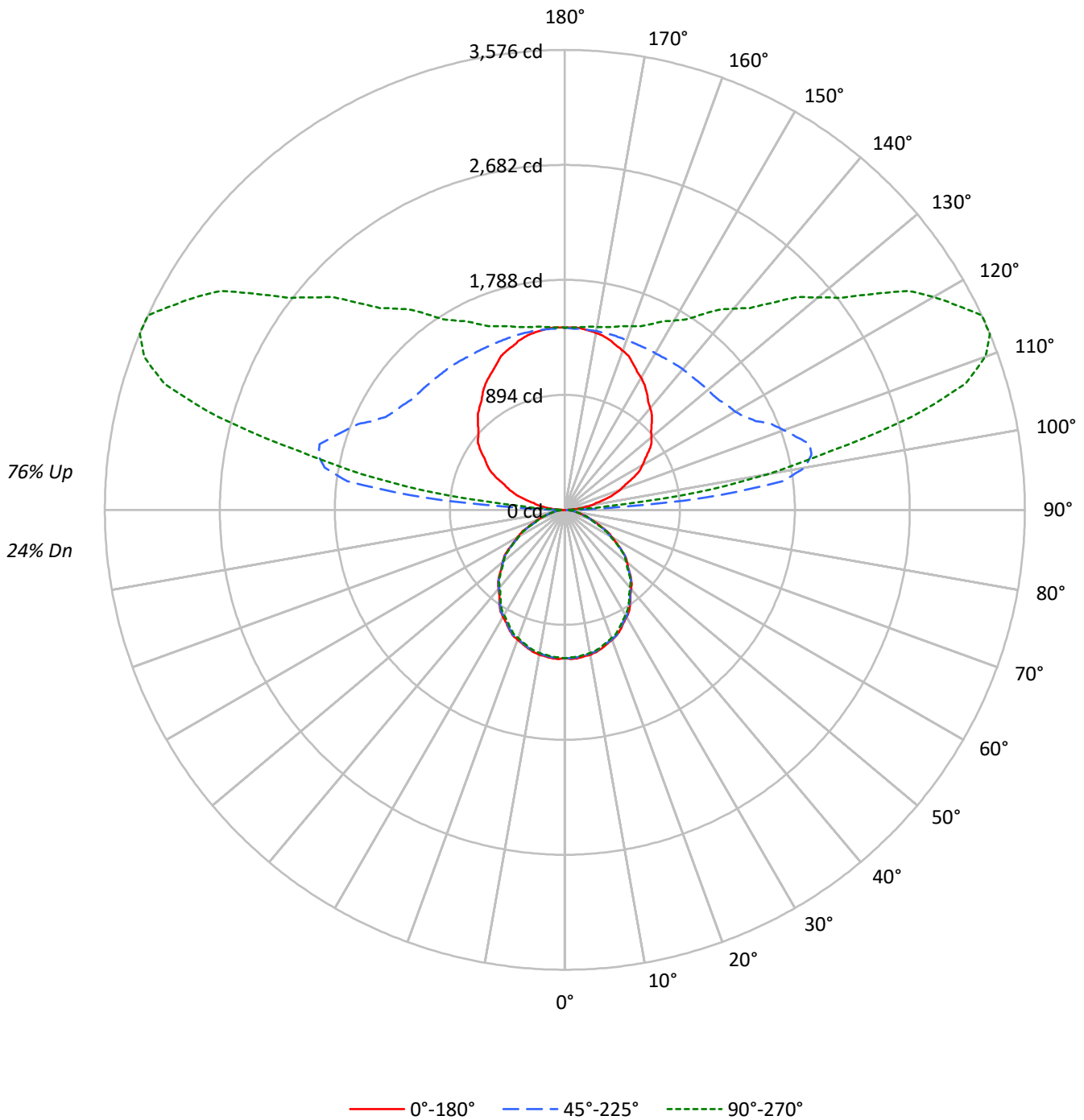
Lumens per Lamp: N/A
Luminaire Lumens: 12083.3 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 84.1
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	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°	7097	7097	7097
5°	7150	7106	7081
10°	7138	7087	7056
15°	7091	7052	7013
20°	7044	7004	6951
25°	6960	6912	6843
30°	6831	6795	6709
35°	6652	6607	6523
40°	6439	6399	6325
45°	6264	6219	6158
50°	6039	6000	5942
55°	5726	5650	5607
60°	5213	5063	5039
65°	4592	4401	4387
70°	3965	3802	3802
75°	3413	3365	3318
80°	3011	3046	2972
85°	2357	2569	2569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	0.9
10°-20°	311.6	2.6
20°-30°	466.7	3.9
30°-40°	547.4	4.5
40°-50°	549.1	4.5
50°-60°	468.4	3.9
60°-70°	305.5	2.5
70°-80°	153.3	1.3
80°-90°	45.4	0.4
90°-100°	657.9	5.4
100°-110°	1778.8	14.7
110°-120°	1870.1	15.5
120°-130°	1519.0	12.6
130°-140°	1191.6	9.9
140°-150°	914.5	7.6
150°-160°	657.7	5.4
160°-170°	401.8	3.3
170°-180°	135.5	1.1
0°-30°	887.4	7.3
0°-40°	1434.7	11.9
0°-60°	2452.3	20.3
0°-90°	2956.4	24.5
90°-120°	4306.8	35.6
90°-150°	7931.9	65.6
90°-180°	9127.0	75.5
0°-180°	12083.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1158	1147	1151	1147	1147	110
15°	1114	1103	1107	1103	1101	314
25°	1026	1014	1018	1009	1008	472
35°	886	877	880	870	869	553
45°	720	715	715	708	708	554
55°	534	532	527	524	523	475
65°	316	310	302	300	301	315
75°	144	144	142	141	140	156
85°	33	36	36	36	36	39
90°	3	9	20	21	20	8
95°	102	358	1094	566	337	107
105°	331	511	1973	2911	2792	348
115°	582	712	1636	3168	3576	575
125°	797	913	1475	2489	2924	710
135°	955	1069	1435	2010	2275	738
145°	1111	1194	1416	1720	1851	695
155°	1254	1303	1403	1543	1594	578
165°	1365	1379	1410	1464	1472	385
175°	1417	1416	1411	1429	1426	135
180°	1416	1416	1416	1416	1416	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1153.9	1153.9	1153.9	1153.9	1153.9
2.5°	1161.2	1151.7	1153.9	1152.2	1147.5
5°	1158.0	1147.1	1150.9	1146.9	1146.9
7.5°	1150.1	1138.2	1142.0	1138.0	1137.8
10°	1142.8	1130.9	1134.7	1130.7	1129.7
12.5°	1132.3	1120.4	1125.0	1120.2	1120.0
15°	1113.5	1102.6	1107.4	1103.3	1101.3
17.5°	1092.2	1080.4	1086.2	1080.5	1079.7
20°	1076.1	1064.2	1070.0	1061.9	1061.9
22.5°	1056.6	1044.8	1051.4	1040.9	1040.9
25°	1025.5	1013.6	1018.4	1009.3	1008.3
27.5°	988.5	976.8	981.8	971.5	971.3
30°	961.8	950.9	956.7	945.6	944.6
32.5°	932.7	922.6	926.8	915.6	914.7
35°	885.9	877.0	879.9	869.7	868.7
37.5°	836.8	827.7	830.9	822.2	821.8
40°	802.0	796.1	796.9	789.8	787.8
42.5°	769.6	762.9	763.8	756.7	756.3
45°	720.1	715.1	715.0	707.9	707.9
47.5°	667.5	663.7	662.6	656.8	656.6
50°	631.1	628.1	627.0	621.9	621.0
52.5°	593.0	591.7	588.2	583.9	583.7
55°	534.0	532.0	526.9	523.9	522.9
57.5°	469.9	465.9	460.2	455.7	456.5
60°	423.8	419.8	411.6	409.6	409.6
62.5°	379.3	374.5	366.3	363.5	365.1
65°	315.5	309.6	302.4	300.4	301.4
67.5°	257.7	252.3	244.5	244.5	243.7
70°	220.5	217.5	211.4	211.4	211.4
72.5°	187.3	185.9	181.4	181.4	180.6
75°	143.6	143.6	141.6	140.6	139.6
77.5°	107.6	108.0	107.0	105.9	104.2
80°	85.0	86.9	86.0	84.9	83.9
82.5°	63.9	65.9	65.7	63.9	63.7
85°	33.4	36.3	36.4	36.4	36.4
87.5°	9.5	13.9	16.9	17.2	17.7
90°	3.0	9.0	19.8	21.3	19.8
92.5°	43.3	157.7	311.2	135.1	97.8
95°	102.1	358.4	1094.1	566.2	336.8
97.5°	164.0	411.0	1705.4	1411.3	1036.5
100°	210.3	432.3	1895.6	1976.9	1598.4
102.5°	252.9	461.8	1962.6	2405.7	2122.6
105°	330.7	510.9	1973.3	2910.8	2791.6
107.5°	402.6	567.1	1887.1	3225.8	3265.5
110°	458.7	607.7	1810.3	3310.4	3478.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	508.6	648.1	1739.5	3293.5	3576.3
115°	582.1	711.7	1636.5	3168.1	3576.3
117.5°	654.0	775.6	1568.6	2976.4	3439.2
120°	697.9	817.1	1528.4	2838.9	3311.2
122.5°	739.3	856.1	1504.0	2691.5	3167.3
125°	796.9	913.2	1475.0	2489.1	2924.1
127.5°	850.0	964.1	1458.0	2323.9	2706.5
130°	879.2	996.9	1450.6	2221.9	2567.6
132.5°	909.7	1026.2	1443.3	2129.9	2448.1
135°	955.4	1068.6	1435.4	2009.8	2275.0
137.5°	1001.4	1108.4	1428.7	1912.4	2128.4
140°	1033.1	1132.9	1426.3	1849.7	2041.9
142.5°	1063.6	1157.5	1421.4	1793.1	1961.4
145°	1110.8	1194.3	1415.6	1720.3	1851.4
147.5°	1153.8	1227.7	1408.9	1654.4	1755.1
150°	1185.5	1251.1	1406.5	1618.6	1699.0
152.5°	1214.8	1272.0	1405.2	1585.3	1651.5
155°	1254.1	1303.2	1403.4	1543.2	1593.9
157.5°	1294.9	1329.2	1403.7	1513.9	1547.2
160°	1318.1	1346.4	1404.9	1495.4	1519.2
162.5°	1336.4	1359.9	1406.1	1480.6	1498.5
165°	1365.3	1378.7	1409.5	1464.5	1472.0
167.5°	1385.1	1394.4	1409.8	1450.7	1454.3
170°	1397.3	1401.8	1411.0	1444.5	1444.5
172.5°	1407.1	1408.0	1411.0	1437.2	1436.0
175°	1417.1	1415.6	1411.0	1429.2	1426.3
177.5°	1420.5	1416.9	1410.7	1422.8	1419.3
180°	1415.6	1415.6	1415.6	1415.6	1415.6

(END OF REPORT)