

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: P563123

Luminaire Tested: **SQ4-PC3-150U-075D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563123
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-150U-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

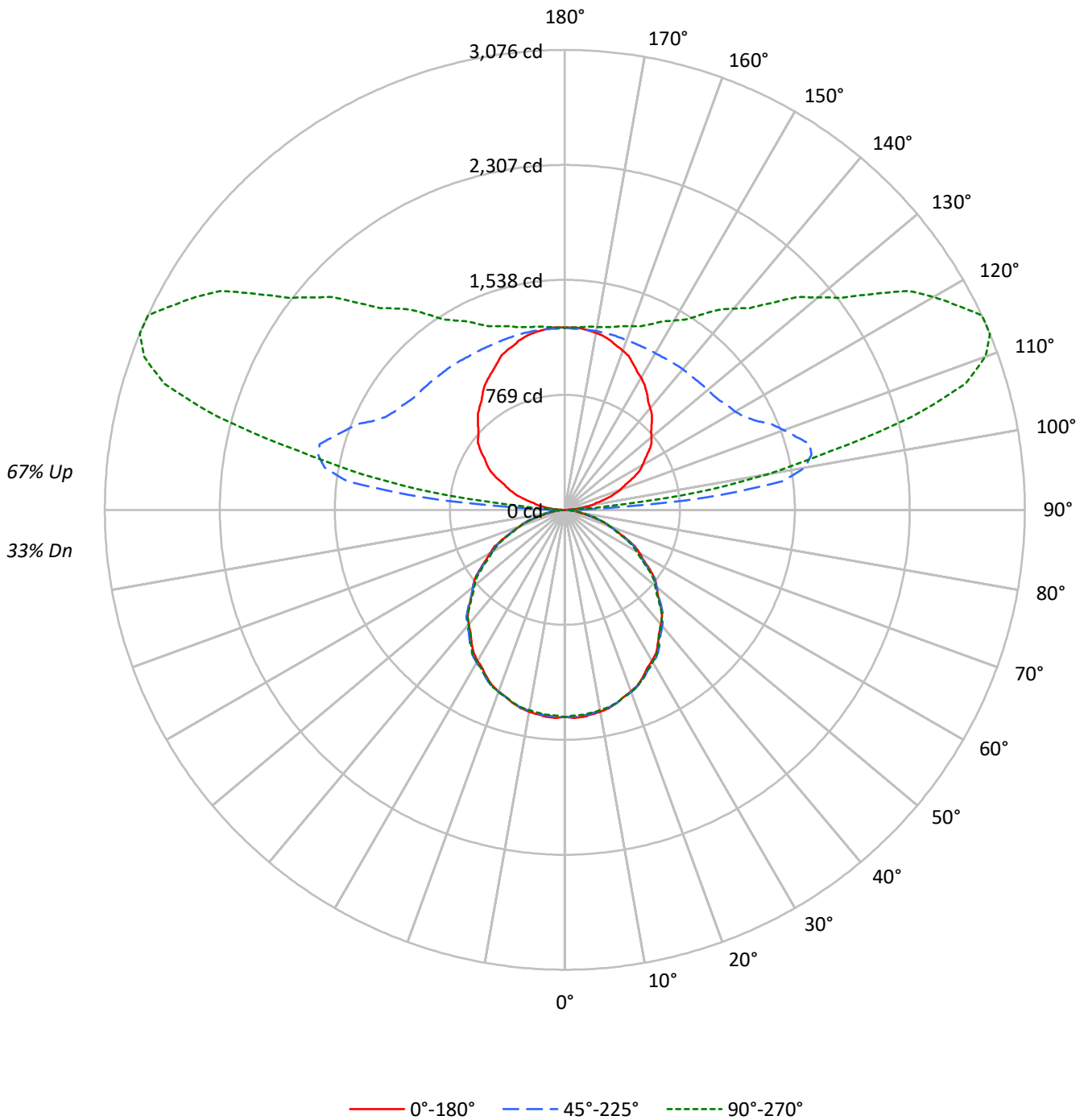
Lumens per Lamp: N/A
Luminaire Lumens: 11634.2 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 97.8
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	13	10
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8520	8520	8520
5°	8584	8529	8497
10°	8563	8523	8499
15°	8518	8518	8510
20°	8462	8488	8488
25°	8382	8443	8417
30°	8281	8381	8344
35°	8157	8282	8224
40°	8022	8135	8053
45°	7877	7932	7810
50°	7670	7670	7548
55°	7427	7331	7220
60°	7069	6926	6816
65°	6533	6402	6347
70°	5721	5766	5744
75°	4603	5090	5121
80°	3269	4314	4360
85°	1990	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	1.1
10°-20°	376.2	3.2
20°-30°	569.7	4.9
30°-40°	683.0	5.9
40°-50°	696.4	6.0
50°-60°	607.9	5.2
60°-70°	435.2	3.7
70°-80°	224.2	1.9
80°-90°	59.2	0.5
90°-100°	565.9	4.9
100°-110°	1530.2	13.2
110°-120°	1608.7	13.8
120°-130°	1306.7	11.2
130°-140°	1025.0	8.8
140°-150°	786.7	6.8
150°-160°	565.8	4.9
160°-170°	345.6	3.0
170°-180°	116.5	1.0
0°-30°	1077.0	9.3
0°-40°	1760.0	15.1
0°-60°	3064.3	26.3
0°-90°	3782.9	32.5
90°-120°	3704.8	31.8
90°-150°	6823.3	58.6
90°-180°	7851.0	67.5
0°-180°	11634.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1385	1385	1385	1385	1385	
5°	1390	1376	1381	1377	1376	132
15°	1338	1326	1338	1338	1336	377
25°	1235	1226	1244	1240	1240	568
35°	1086	1084	1103	1095	1095	679
45°	906	903	912	900	898	697
55°	693	684	684	673	673	617
65°	449	439	440	436	436	444
75°	194	202	214	216	216	209
85°	28	43	51	53	51	38
90°	3	8	17	18	17	7
95°	88	308	941	487	290	92
105°	284	440	1698	2504	2401	300
115°	501	612	1408	2725	3076	494
125°	686	786	1269	2141	2515	611
135°	822	919	1235	1729	1957	635
145°	956	1027	1218	1480	1593	598
155°	1079	1121	1207	1328	1371	498
165°	1174	1186	1212	1260	1266	331
175°	1219	1218	1214	1230	1227	116
180°	1218	1218	1218	1218	1218	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1385.2	1385.2	1385.2	1385.2	1385.2
2.5°	1393.4	1381.3	1385.2	1382.0	1377.0
5°	1390.3	1376.5	1381.3	1377.4	1376.2
7.5°	1380.3	1366.5	1372.9	1370.3	1369.0
10°	1371.1	1357.3	1364.7	1362.1	1360.8
12.5°	1358.8	1346.0	1354.4	1351.8	1351.6
15°	1337.7	1326.4	1337.7	1337.7	1336.4
17.5°	1311.3	1301.0	1313.1	1313.8	1313.1
20°	1292.8	1281.5	1296.7	1295.4	1296.7
22.5°	1270.3	1261.0	1277.2	1273.9	1275.1
25°	1235.1	1226.3	1244.1	1240.2	1240.2
27.5°	1193.6	1187.3	1206.6	1202.5	1202.5
30°	1165.9	1159.6	1180.0	1174.8	1174.8
32.5°	1135.1	1130.8	1150.2	1144.0	1144.0
35°	1086.3	1083.8	1103.0	1095.3	1095.3
37.5°	1036.1	1033.8	1051.2	1041.9	1038.9
40°	999.1	997.9	1013.2	1003.0	1003.0
42.5°	962.2	960.9	974.2	961.9	961.9
45°	905.5	903.0	911.9	900.3	897.8
47.5°	843.7	841.2	846.8	834.2	832.9
50°	801.6	799.1	801.6	790.0	788.8
52.5°	758.5	754.0	754.4	742.9	742.6
55°	692.6	683.8	683.6	673.3	673.3
57.5°	622.8	611.3	612.3	603.5	602.3
60°	574.6	562.0	563.0	555.3	554.1
62.5°	527.4	512.8	515.8	507.1	506.9
65°	448.9	438.9	439.9	436.1	436.1
67.5°	373.5	364.2	370.9	367.8	367.6
70°	318.1	311.8	320.6	320.6	319.4
72.5°	266.8	266.5	277.5	277.6	278.3
75°	193.7	202.4	214.2	215.5	215.5
77.5°	129.3	144.8	157.8	158.3	158.0
80°	92.3	109.9	121.8	124.4	123.1
82.5°	62.6	81.1	91.1	93.6	92.3
85°	28.2	43.3	51.3	52.6	51.3
87.5°	8.7	18.8	23.9	24.1	21.9
90°	2.6	7.7	17.0	18.3	17.0
92.5°	37.2	135.7	267.7	116.2	84.2
95°	87.8	308.3	941.2	487.1	289.7
97.5°	141.0	353.5	1467.1	1214.1	891.6
100°	180.9	371.9	1630.7	1700.6	1375.0
102.5°	217.6	397.3	1688.3	2069.5	1826.0
105°	284.4	439.5	1697.5	2503.9	2401.4
107.5°	346.3	487.8	1623.3	2775.0	2809.1
110°	394.6	522.7	1557.2	2847.8	2992.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	437.5	557.5	1496.4	2833.2	3076.5
115°	500.7	612.2	1407.8	2725.3	3076.5
117.5°	562.6	667.2	1349.4	2560.4	2958.5
120°	600.4	702.9	1314.7	2442.1	2848.4
122.5°	636.0	736.5	1293.8	2315.3	2724.7
125°	685.6	785.5	1268.9	2141.2	2515.4
127.5°	731.2	829.3	1254.2	1999.1	2328.3
130°	756.3	857.6	1247.9	1911.4	2208.7
132.5°	782.6	882.8	1241.6	1832.2	2106.0
135°	821.9	919.3	1234.8	1728.9	1957.0
137.5°	861.5	953.5	1229.0	1645.1	1830.9
140°	888.7	974.6	1226.9	1591.2	1756.5
142.5°	914.9	995.7	1222.7	1542.4	1687.3
145°	955.6	1027.4	1217.7	1479.8	1592.6
147.5°	992.5	1056.1	1212.0	1423.2	1509.8
150°	1019.8	1076.2	1209.9	1392.3	1461.6
152.5°	1045.0	1094.2	1208.8	1363.8	1420.7
155°	1078.8	1121.1	1207.3	1327.5	1371.1
157.5°	1113.9	1143.4	1207.5	1302.3	1331.0
160°	1133.9	1158.2	1208.6	1286.4	1306.9
162.5°	1149.6	1169.8	1209.6	1273.7	1289.1
165°	1174.5	1186.0	1212.5	1259.8	1266.2
167.5°	1191.5	1199.5	1212.8	1248.0	1251.0
170°	1202.0	1205.9	1213.8	1242.7	1242.7
172.5°	1210.4	1211.2	1213.8	1236.3	1235.3
175°	1219.1	1217.8	1213.8	1229.5	1226.9
177.5°	1221.9	1218.9	1213.6	1224.0	1220.9
180°	1217.7	1217.7	1217.7	1217.7	1217.7

(END OF REPORT)