

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: P563791

Luminaire Tested: **SQ4-PP3-150U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563791
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-075D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

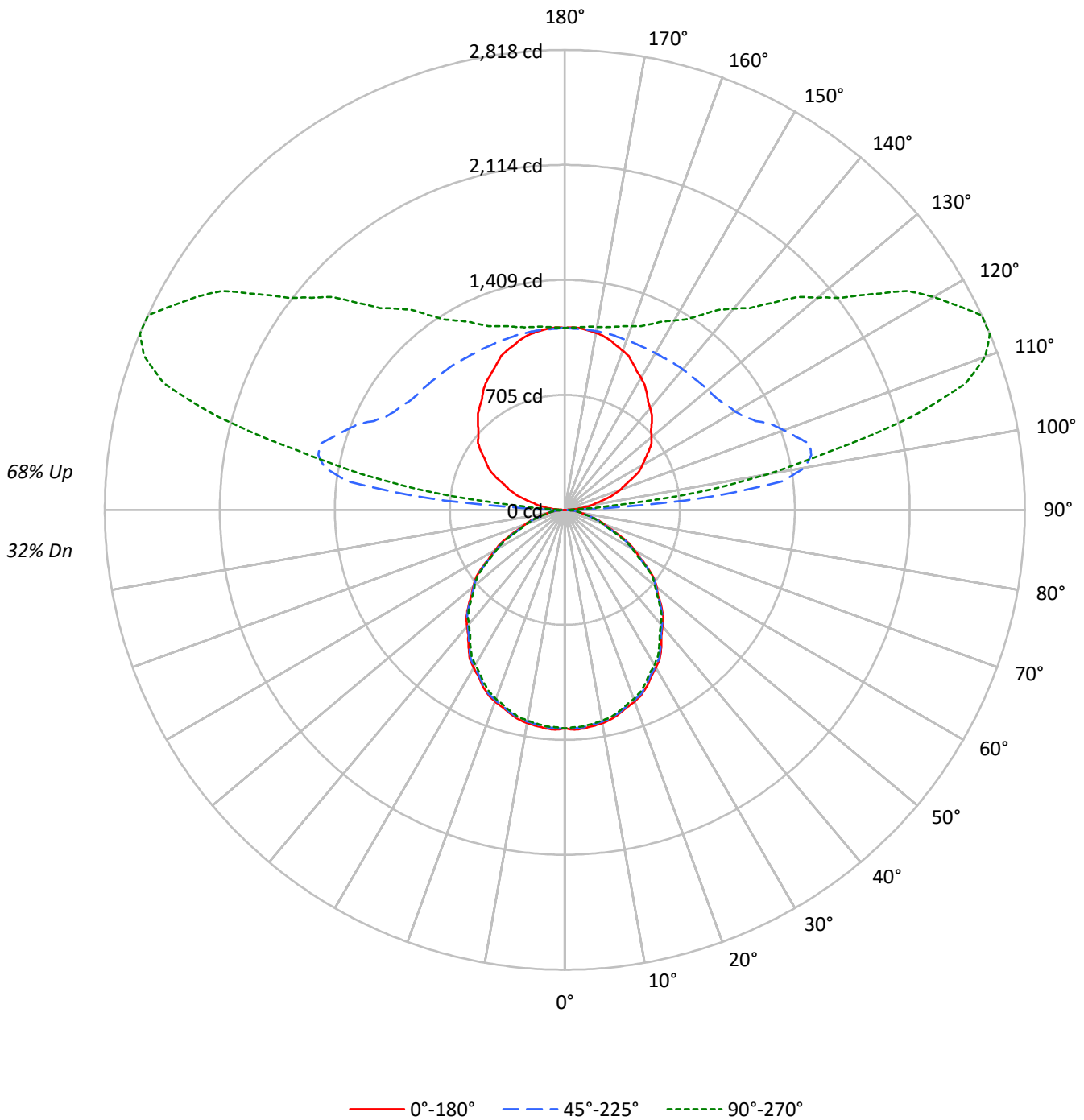
Lumens per Lamp: N/A
Luminaire Lumens: 10622.2 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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				
RC	80					70					50					30				
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	32		
1	94	90	86	83	84	81	78	75	65	62	60	49	48	47	35	35	34	27		
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29	23		
3	78	69	62	56	70	62	56	52	50	46	42	38	36	33	28	26	25	20		
4	71	61	53	48	64	55	49	44	44	40	36	34	31	28	25	23	21	17		
5	65	54	46	41	59	49	42	37	40	35	31	31	27	25	22	20	18	15		
6	60	49	41	35	54	44	37	32	36	31	27	28	24	21	20	18	16	13		
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	14	12		
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10		
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	13	12	9		
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	14	12	10	8		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8241	8241	8241
5°	8302	8251	8222
10°	8288	8229	8192
15°	8233	8188	8143
20°	8179	8132	8071
25°	8082	8026	7946
30°	7932	7890	7790
35°	7724	7672	7574
40°	7477	7430	7345
45°	7273	7222	7150
50°	7012	6967	6899
55°	6649	6561	6510
60°	6052	5880	5851
65°	5333	5110	5094
70°	4604	4413	4413
75°	3964	3907	3852
80°	3493	3535	3454
85°	2738	2985	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	1.2
10°-20°	361.8	3.4
20°-30°	541.9	5.1
30°-40°	635.6	6.0
40°-50°	637.6	6.0
50°-60°	543.9	5.1
60°-70°	354.7	3.3
70°-80°	178.0	1.7
80°-90°	51.6	0.5
90°-100°	518.3	4.9
100°-110°	1401.4	13.2
110°-120°	1473.3	13.9
120°-130°	1196.7	11.3
130°-140°	938.7	8.8
140°-150°	720.5	6.8
150°-160°	518.2	4.9
160°-170°	316.5	3.0
170°-180°	106.7	1.0
0°-30°	1030.4	9.7
0°-40°	1666.0	15.7
0°-60°	2847.5	26.8
0°-90°	3431.8	32.3
90°-120°	3393.0	31.9
90°-150°	6249.0	58.8
90°-180°	7190.0	67.7
0°-180°	10622.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1345	1332	1336	1332	1332	128
15°	1293	1280	1286	1281	1279	365
25°	1191	1177	1183	1172	1171	548
35°	1029	1018	1022	1010	1009	643
45°	836	830	830	822	822	644
55°	620	618	612	608	607	551
65°	366	360	351	349	350	366
75°	167	167	164	163	162	181
85°	39	42	42	42	42	46
90°	2	7	16	17	16	7
95°	80	282	862	446	265	84
105°	260	402	1555	2293	2199	274
115°	459	561	1289	2496	2818	453
125°	628	719	1162	1961	2304	560
135°	753	842	1131	1583	1792	582
145°	875	941	1115	1355	1459	547
155°	988	1027	1106	1216	1256	456
165°	1076	1086	1110	1154	1160	303
175°	1116	1115	1112	1126	1124	106
180°	1115	1115	1115	1115	1115	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1339.9	1339.9	1339.9	1339.9	1339.9
2.5°	1348.4	1337.3	1339.9	1337.9	1332.4
5°	1344.6	1332.0	1336.4	1331.7	1331.7
7.5°	1335.4	1321.7	1326.1	1321.4	1321.1
10°	1327.0	1313.2	1317.6	1312.9	1311.7
12.5°	1314.8	1301.0	1306.3	1300.7	1300.5
15°	1292.9	1280.3	1285.9	1281.1	1278.8
17.5°	1268.3	1254.5	1261.2	1254.6	1253.7
20°	1249.5	1235.7	1242.4	1233.0	1233.0
22.5°	1226.9	1213.2	1220.8	1208.6	1208.6
25°	1190.8	1177.0	1182.6	1172.0	1170.8
27.5°	1147.8	1134.2	1140.0	1128.1	1127.8
30°	1116.8	1104.2	1110.9	1098.0	1096.8
32.5°	1083.0	1071.3	1076.2	1063.2	1062.1
35°	1028.7	1018.4	1021.7	1009.9	1008.7
37.5°	971.6	961.1	964.8	954.7	954.3
40°	931.2	924.4	925.4	917.1	914.8
42.5°	893.7	885.9	886.9	878.6	878.2
45°	836.1	830.4	830.3	822.0	822.0
47.5°	775.1	770.7	769.4	762.6	762.4
50°	732.8	729.3	728.1	722.2	721.0
52.5°	688.6	687.0	683.0	678.1	677.8
55°	620.0	617.7	611.8	608.3	607.1
57.5°	545.6	541.0	534.3	529.2	530.1
60°	492.0	487.5	478.0	475.6	475.6
62.5°	440.4	434.9	425.3	422.1	423.9
65°	366.4	359.5	351.1	348.8	350.0
67.5°	299.2	293.0	284.0	283.9	283.0
70°	256.0	252.6	245.4	245.4	245.4
72.5°	217.5	215.9	210.7	210.7	209.7
75°	166.8	166.8	164.4	163.2	162.1
77.5°	124.9	125.4	124.2	123.0	121.0
80°	98.6	100.9	99.8	98.6	97.5
82.5°	74.2	76.5	76.3	74.2	74.0
85°	38.8	42.2	42.3	42.3	42.3
87.5°	10.8	15.4	18.2	18.4	19.1
90°	2.4	7.1	15.6	16.8	15.6
92.5°	34.1	124.2	245.1	106.4	77.1
95°	80.4	282.3	861.9	446.1	265.3
97.5°	129.2	323.8	1343.6	1111.9	816.6
100°	165.7	340.6	1493.4	1557.4	1259.3
102.5°	199.3	363.8	1546.2	1895.3	1672.3
105°	260.5	402.5	1554.6	2293.2	2199.3
107.5°	317.2	446.8	1486.7	2541.4	2572.6
110°	361.3	478.7	1426.2	2608.0	2740.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	400.7	510.6	1370.5	2594.7	2817.5
115°	458.6	560.7	1289.3	2495.9	2817.5
117.5°	515.2	611.0	1235.8	2344.9	2709.5
120°	549.8	643.7	1204.1	2236.5	2608.6
122.5°	582.5	674.5	1184.9	2120.4	2495.3
125°	627.8	719.4	1162.1	1961.0	2303.7
127.5°	669.6	759.5	1148.6	1830.9	2132.3
130°	692.7	785.4	1142.9	1750.5	2022.8
132.5°	716.7	808.5	1137.1	1678.0	1928.7
135°	752.7	841.9	1130.8	1583.4	1792.3
137.5°	789.0	873.2	1125.6	1506.6	1676.8
140°	813.9	892.6	1123.6	1457.2	1608.6
142.5°	837.9	911.9	1119.8	1412.6	1545.3
145°	875.1	940.9	1115.2	1355.3	1458.6
147.5°	909.0	967.2	1110.0	1303.4	1382.7
150°	934.0	985.6	1108.0	1275.1	1338.5
152.5°	957.0	1002.1	1107.1	1249.0	1301.1
155°	988.0	1026.7	1105.6	1215.8	1255.7
157.5°	1020.2	1047.2	1105.9	1192.7	1219.0
160°	1038.4	1060.7	1106.8	1178.1	1196.9
162.5°	1052.8	1071.4	1107.8	1166.5	1180.5
165°	1075.6	1086.2	1110.4	1153.8	1159.7
167.5°	1091.2	1098.5	1110.7	1142.9	1145.7
170°	1100.8	1104.4	1111.6	1138.1	1138.1
172.5°	1108.5	1109.2	1111.6	1132.3	1131.3
175°	1116.4	1115.3	1111.6	1126.0	1123.6
177.5°	1119.1	1116.3	1111.4	1120.9	1118.1
180°	1115.2	1115.2	1115.2	1115.2	1115.2

(END OF REPORT)