

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: P561745

Luminaire Tested: **SQ4-PC3-150U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561745  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

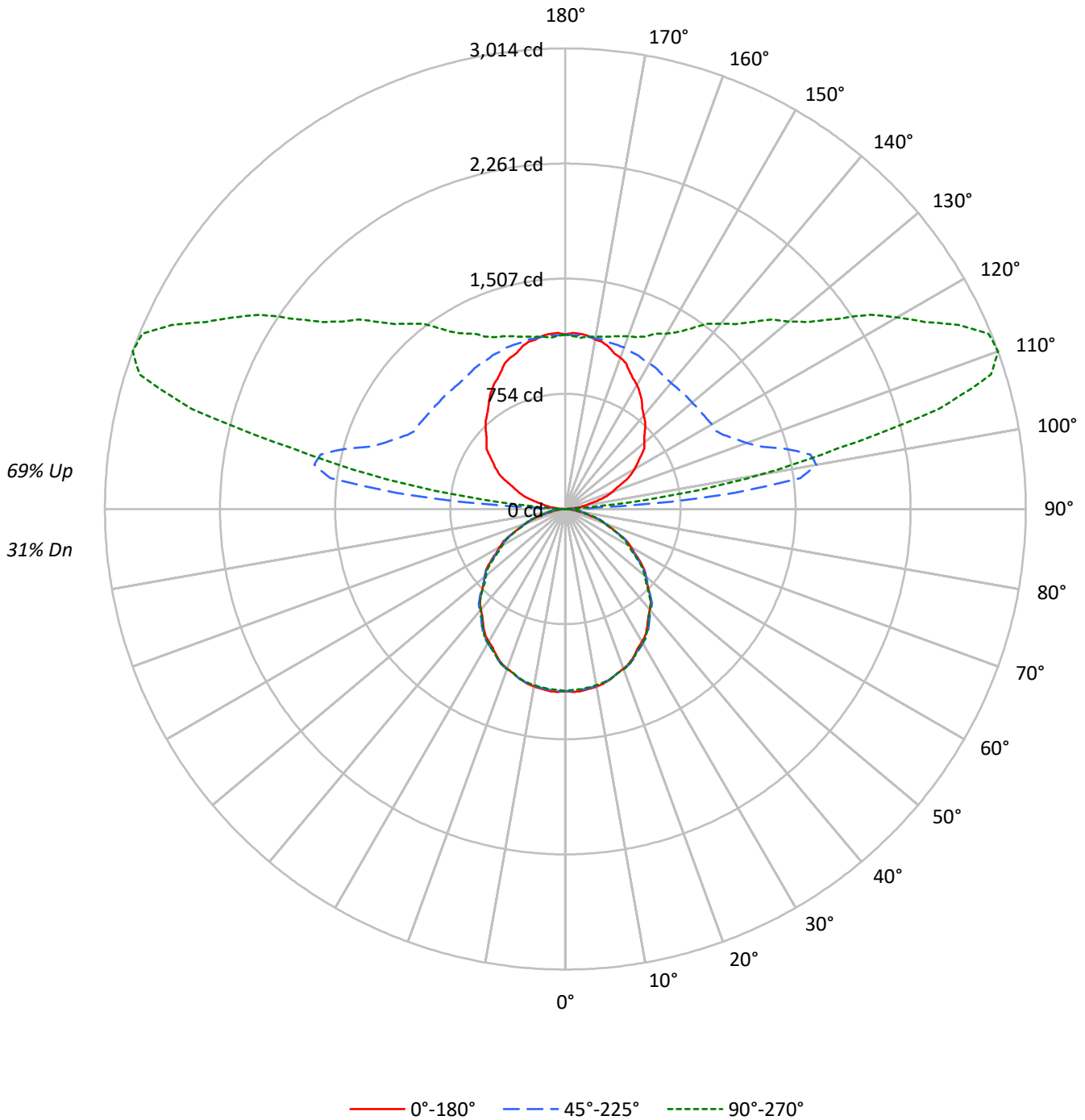
Lumens per Lamp: N/A  
Luminaire Lumens: 10342.0 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 82.5  
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	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	11
8	51	39	32	26	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10996	10996	10996
5°	11079	11007	10966
10°	11052	11001	10970
15°	10994	10994	10983
20°	10922	10954	10954
25°	10818	10897	10863
30°	10687	10816	10769
35°	10528	10690	10614
40°	10354	10500	10394
45°	10166	10237	10079
50°	9900	9900	9742
55°	9585	9461	9320
60°	9123	8940	8796
65°	8431	8263	8191
70°	7383	7443	7413
75°	5939	6570	6609
80°	4224	5568	5627
85°	2572	4668	4668



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.8	1.1
10°-20°	323.7	3.1
20°-30°	490.2	4.7
30°-40°	587.7	5.7
40°-50°	599.2	5.8
50°-60°	523.1	5.1
60°-70°	374.5	3.6
70°-80°	192.9	1.9
80°-90°	48.8	0.5
90°-100°	520.1	5.0
100°-110°	1479.7	14.3
110°-120°	1417.7	13.7
120°-130°	1122.1	10.8
130°-140°	900.6	8.7
140°-150°	705.1	6.8
150°-160°	515.9	5.0
160°-170°	319.6	3.1
170°-180°	108.4	1.0
0°-30°	926.7	9.0
0°-40°	1514.3	14.6
0°-60°	2636.6	25.5
0°-90°	3252.8	31.5
90°-120°	3417.5	33.0
90°-150°	6145.3	59.4
90°-180°	7089.0	68.5
0°-180°	10342.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1196	1184	1188	1185	1184	114
15°	1151	1141	1151	1151	1150	325
25°	1063	1055	1070	1067	1067	489
35°	935	932	949	942	942	585
45°	779	777	785	775	772	600
55°	596	588	588	579	579	531
65°	386	378	378	375	375	382
75°	167	174	184	185	185	180
85°	24	37	44	45	44	33
90°	0	0	0	0	0	3
95°	56	224	1007	348	215	64
105°	230	349	1508	2664	2532	243
115°	427	516	1143	2422	2844	421
125°	603	669	1091	1811	2165	540
135°	738	799	1078	1530	1729	569
145°	870	915	1087	1324	1443	544
155°	994	1017	1113	1197	1245	459
165°	1098	1102	1126	1150	1167	309
175°	1150	1144	1139	1132	1124	109
180°	1141	1141	1141	1141	1141	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1191.8	1191.8	1191.8	1191.8	1191.8
2.5°	1198.9	1188.5	1191.8	1189.1	1184.8
5°	1196.2	1184.4	1188.5	1185.2	1184.1
7.5°	1187.6	1175.8	1181.2	1179.0	1177.9
10°	1179.7	1167.8	1174.2	1171.9	1170.9
12.5°	1169.1	1158.1	1165.3	1163.1	1162.9
15°	1151.0	1141.3	1151.0	1151.0	1149.9
17.5°	1128.3	1119.4	1129.8	1130.5	1129.8
20°	1112.4	1102.7	1115.7	1114.6	1115.7
22.5°	1093.0	1085.0	1098.9	1096.1	1097.1
25°	1062.7	1055.2	1070.4	1067.1	1067.1
27.5°	1027.0	1021.6	1038.2	1034.7	1034.7
30°	1003.1	997.7	1015.3	1010.8	1010.8
32.5°	976.6	973.0	989.7	984.4	984.4
35°	934.7	932.5	949.1	942.4	942.4
37.5°	891.4	889.5	904.5	896.5	893.9
40°	859.7	858.6	871.8	863.0	863.0
42.5°	827.9	826.8	838.3	827.7	827.7
45°	779.1	776.9	784.6	774.6	772.5
47.5°	725.9	723.8	728.6	717.7	716.6
50°	689.7	687.6	689.7	679.8	678.7
52.5°	652.6	648.8	649.1	639.2	639.0
55°	595.9	588.4	588.2	579.4	579.4
57.5°	535.9	526.0	526.8	519.3	518.2
60°	494.4	483.6	484.5	477.8	476.7
62.5°	453.8	441.3	443.8	436.3	436.1
65°	386.2	377.6	378.5	375.2	375.2
67.5°	321.4	313.4	319.1	316.5	316.3
70°	273.7	268.3	275.9	275.9	274.8
72.5°	229.5	229.3	238.8	238.8	239.5
75°	166.6	174.2	184.3	185.4	185.4
77.5°	111.2	124.6	135.7	136.2	136.0
80°	79.5	94.6	104.8	107.0	105.9
82.5°	53.9	69.8	78.4	80.5	79.5
85°	24.3	37.2	44.1	45.2	44.1
87.5°	7.1	14.8	17.7	17.6	15.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.4	92.0	213.5	62.1	46.9
95°	56.4	224.0	1006.8	348.5	214.8
97.5°	103.7	262.4	1550.5	1109.5	760.3
100°	136.7	285.2	1668.5	1690.1	1301.8
102.5°	173.1	309.8	1642.5	2163.3	1824.3
105°	230.0	348.8	1508.0	2663.6	2532.1
107.5°	287.7	394.2	1350.9	2804.6	2921.8
110°	327.6	427.3	1260.6	2750.7	3013.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	365.8	460.4	1199.9	2623.0	2998.1
115°	427.4	516.5	1143.4	2422.3	2844.5
117.5°	481.7	565.3	1110.0	2202.9	2650.1
120°	525.1	595.1	1106.6	2077.5	2506.0
122.5°	559.8	629.8	1097.9	1967.4	2365.4
125°	603.2	669.0	1091.4	1811.1	2165.4
127.5°	650.5	712.0	1087.9	1717.7	2009.6
130°	674.8	736.3	1082.7	1652.6	1907.2
132.5°	700.8	760.6	1082.7	1601.8	1836.0
135°	737.7	799.2	1078.4	1529.8	1729.3
137.5°	772.4	832.2	1077.9	1468.9	1641.2
140°	798.5	860.0	1076.2	1418.4	1583.9
142.5°	828.0	879.3	1081.4	1378.1	1526.6
145°	870.1	914.6	1087.0	1324.1	1442.9
147.5°	906.1	949.4	1096.6	1269.5	1372.1
150°	937.3	967.0	1100.1	1251.4	1323.5
152.5°	961.6	993.0	1103.5	1227.0	1294.0
155°	993.7	1017.1	1113.1	1196.6	1245.4
157.5°	1033.7	1047.7	1115.2	1182.9	1217.7
160°	1054.5	1065.1	1123.9	1172.3	1202.0
162.5°	1066.6	1078.9	1125.7	1163.5	1186.4
165°	1097.9	1102.1	1126.1	1150.3	1167.3
167.5°	1119.1	1115.3	1136.1	1147.1	1153.9
170°	1126.1	1124.0	1132.6	1135.0	1143.4
172.5°	1141.7	1134.5	1137.8	1131.4	1138.2
175°	1150.0	1143.6	1139.1	1132.4	1123.9
177.5°	1153.4	1143.2	1137.8	1130.9	1132.6
180°	1141.3	1141.3	1141.3	1141.3	1141.3

(END OF REPORT)