

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: P563433

Luminaire Tested: **SQ4-PP3-075U-100D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563433
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-100D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

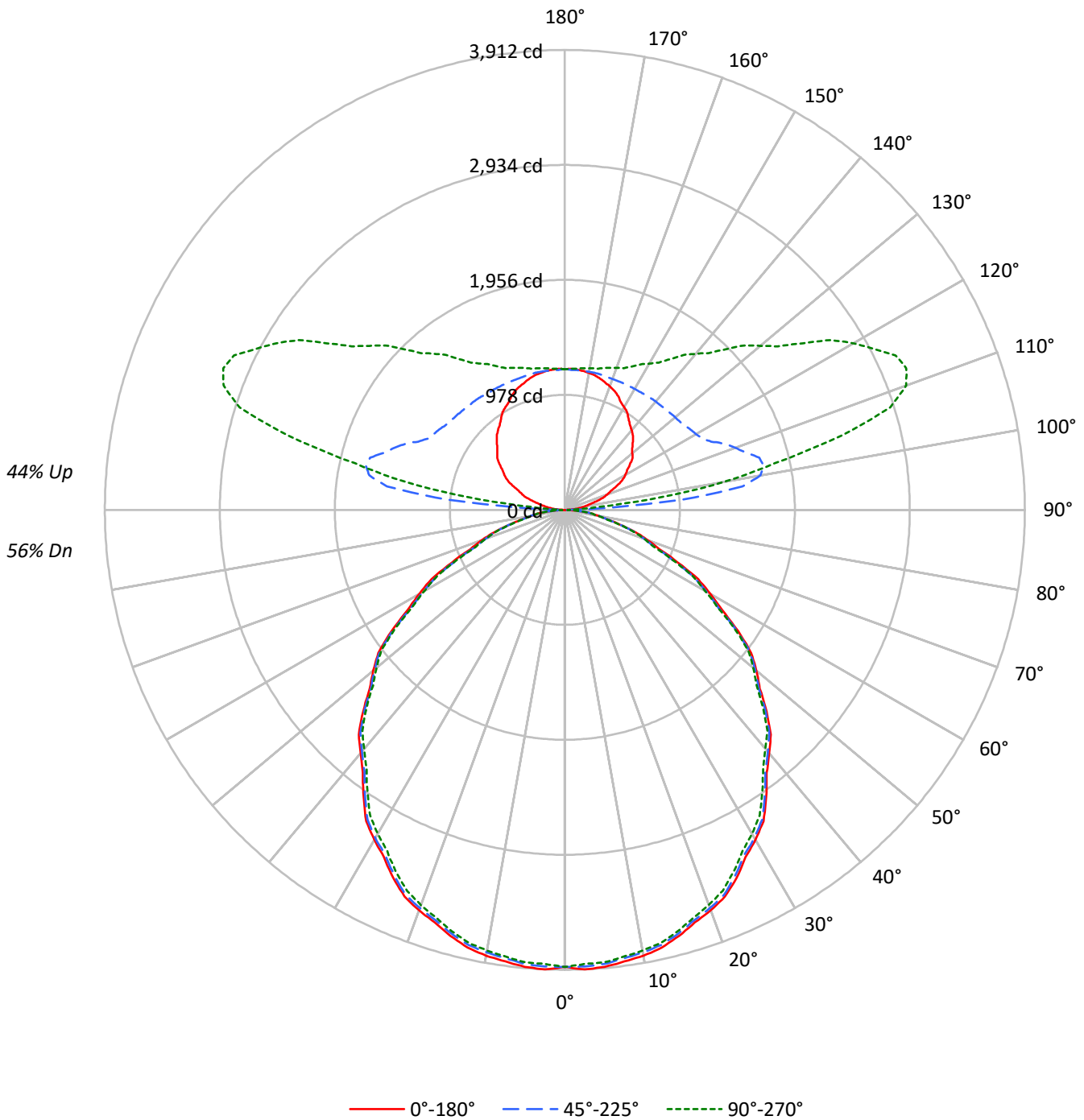
Lumens per Lamp: N/A
Luminaire Lumens: 17757.9 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 162.2
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									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56																			
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	53	48																			
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40																			
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34																			
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30																			
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26																			
6	64	52	44	38	60	49	42	36	43	37	33	37	32	29	32	28	25	23																			
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	25	23	20																			
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	27	23	20	18																			
9	51	39	32	26	48	37	30	25	32	27	23	28	24	21	24	21	18	16																			
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11957	11957	11957
5°	12045	11971	11929
10°	12025	11939	11886
15°	11945	11880	11815
20°	11866	11799	11710
25°	11725	11644	11528
30°	11508	11447	11302
35°	11207	11130	10989
40°	10848	10780	10656
45°	10552	10478	10374
50°	10173	10108	10010
55°	9647	9519	9446
60°	8781	8530	8488
65°	7736	7414	7389
70°	6679	6404	6404
75°	5750	5668	5587
80°	5069	5129	5009
85°	3966	4330	4330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.6	2.1
10°-20°	1049.7	5.9
20°-30°	1572.4	8.9
30°-40°	1844.3	10.4
40°-50°	1850.1	10.4
50°-60°	1578.3	8.9
60°-70°	1029.3	5.8
70°-80°	516.4	2.9
80°-90°	146.0	0.8
90°-100°	565.0	3.2
100°-110°	1554.4	8.8
110°-120°	1604.4	9.0
120°-130°	1285.5	7.2
130°-140°	1009.6	5.7
140°-150°	773.7	4.4
150°-160°	556.3	3.1
160°-170°	340.2	1.9
170°-180°	114.7	0.6
0°-30°	2989.8	16.8
0°-40°	4834.1	27.2
0°-60°	8262.4	46.5
0°-90°	9954.0	56.1
90°-120°	3723.8	21.0
90°-150°	6792.7	38.3
90°-180°	7804.0	43.9
0°-180°	17757.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3888	3888	3888	3888	3888	
5°	3902	3865	3878	3864	3864	371
15°	3752	3715	3731	3717	3711	1058
25°	3455	3415	3431	3401	3397	1589
35°	2985	2955	2964	2930	2927	1865
45°	2426	2410	2409	2385	2385	1868
55°	1799	1792	1775	1765	1762	1599
65°	1063	1043	1019	1012	1015	1061
75°	484	484	477	474	470	525
85°	112	122	123	123	123	132
90°	2	10	18	23	23	10
95°	84	308	999	427	273	89
105°	278	427	1713	2608	2434	293
115°	492	599	1374	2736	3104	485
125°	678	773	1246	2108	2470	605
135°	818	908	1211	1705	1929	631
145°	946	1010	1193	1453	1565	593
155°	1070	1105	1185	1306	1343	492
165°	1157	1172	1190	1239	1246	326
175°	1198	1200	1193	1208	1206	114
180°	1198	1198	1198	1198	1198	

TEST NUMBER: P563433

CATALOG NUMBER: SQ4-PP3-075U-100D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3887.9	3887.9	3887.9	3887.9	3887.9
2.5°	3912.5	3880.5	3887.9	3882.1	3866.1
5°	3901.6	3864.9	3877.7	3864.1	3864.1
7.5°	3875.0	3835.0	3847.7	3834.1	3833.4
10°	3850.5	3810.5	3823.2	3809.5	3806.2
12.5°	3815.0	3775.0	3790.5	3774.1	3773.5
15°	3751.6	3715.0	3731.2	3717.4	3710.8
17.5°	3680.1	3640.1	3659.6	3640.5	3637.8
20°	3625.6	3585.6	3605.1	3577.9	3577.9
22.5°	3560.1	3520.2	3542.4	3507.0	3507.0
25°	3455.2	3415.2	3431.3	3400.6	3397.3
27.5°	3330.5	3291.2	3308.0	3273.2	3272.6
30°	3240.5	3203.9	3223.5	3185.9	3182.6
32.5°	3142.4	3108.4	3122.6	3085.1	3081.7
35°	2985.0	2955.0	2964.5	2930.4	2927.0
37.5°	2819.4	2788.7	2799.6	2770.3	2768.9
40°	2702.1	2682.2	2685.1	2661.1	2654.4
42.5°	2593.1	2570.4	2573.3	2549.5	2548.1
45°	2426.1	2409.5	2409.1	2385.2	2385.2
47.5°	2248.9	2236.3	2232.6	2212.8	2212.1
50°	2126.3	2116.3	2112.6	2095.5	2092.2
52.5°	1998.2	1993.5	1981.8	1967.5	1966.8
55°	1799.2	1792.5	1775.3	1765.0	1761.7
57.5°	1583.1	1569.8	1550.4	1535.5	1538.1
60°	1427.7	1414.4	1386.8	1380.0	1380.0
62.5°	1277.8	1261.8	1234.2	1224.8	1230.1
65°	1063.1	1043.1	1018.8	1012.1	1015.4
67.5°	868.2	850.2	823.9	823.9	821.2
70°	742.8	732.8	712.2	712.2	712.2
72.5°	631.1	626.4	611.3	611.2	608.6
75°	483.9	483.9	477.0	473.6	470.2
77.5°	362.6	363.9	360.5	357.0	351.0
80°	286.2	292.9	289.6	286.2	282.8
82.5°	215.4	222.0	221.5	215.3	214.7
85°	112.4	122.4	122.7	122.7	122.7
87.5°	30.5	42.7	47.2	48.3	50.9
90°	2.5	10.0	17.8	22.9	22.9
92.5°	35.2	150.3	260.5	100.0	82.1
95°	84.1	308.4	999.1	427.2	272.7
97.5°	137.1	342.0	1524.6	1174.7	828.8
100°	175.9	362.8	1689.8	1705.6	1391.6
102.5°	212.6	387.5	1732.6	2116.0	1827.9
105°	277.8	427.3	1712.7	2608.5	2434.0
107.5°	340.0	476.6	1615.4	2849.6	2901.5
110°	384.9	509.5	1542.0	2909.6	3089.0



TEST NUMBER: P563433

CATALOG NUMBER: SQ4-PP3-075U-100D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	425.6	546.3	1468.6	2871.0	3144.1
115°	491.9	599.1	1373.8	2735.5	3104.3
117.5°	555.1	653.8	1313.6	2545.5	2962.6
120°	593.9	688.6	1287.1	2403.0	2834.2
122.5°	628.5	723.2	1268.8	2278.2	2687.4
125°	678.0	772.7	1246.3	2108.4	2469.7
127.5°	724.9	815.1	1231.5	1966.7	2283.7
130°	749.3	841.5	1223.4	1882.4	2171.5
132.5°	777.9	870.1	1217.3	1808.4	2069.6
135°	818.1	907.9	1210.6	1705.1	1929.4
137.5°	855.9	939.1	1205.0	1621.6	1806.5
140°	884.4	961.7	1203.0	1566.2	1733.1
142.5°	908.9	980.1	1198.9	1516.7	1659.7
145°	945.6	1010.4	1192.8	1452.8	1564.9
147.5°	984.8	1040.6	1189.7	1396.2	1485.9
150°	1009.3	1059.1	1187.7	1365.2	1434.9
152.5°	1031.7	1077.6	1185.7	1338.4	1396.2
155°	1070.5	1105.4	1185.2	1305.8	1343.2
157.5°	1098.5	1126.9	1185.2	1279.0	1304.9
160°	1118.9	1141.3	1185.2	1264.6	1284.6
162.5°	1135.2	1153.6	1187.2	1252.3	1268.2
165°	1157.1	1172.1	1190.3	1238.8	1246.3
167.5°	1172.4	1183.9	1192.8	1227.5	1229.5
170°	1182.6	1190.1	1192.8	1223.4	1223.4
172.5°	1190.8	1194.3	1192.8	1217.2	1215.2
175°	1197.9	1200.4	1192.8	1208.0	1205.5
177.5°	1199.9	1199.9	1191.8	1203.9	1199.9
180°	1197.9	1197.9	1197.9	1197.9	1197.9

(END OF REPORT)