

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: P564808

Luminaire Tested: **SQ4-PW1-075U-125D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564808
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-075U-125D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

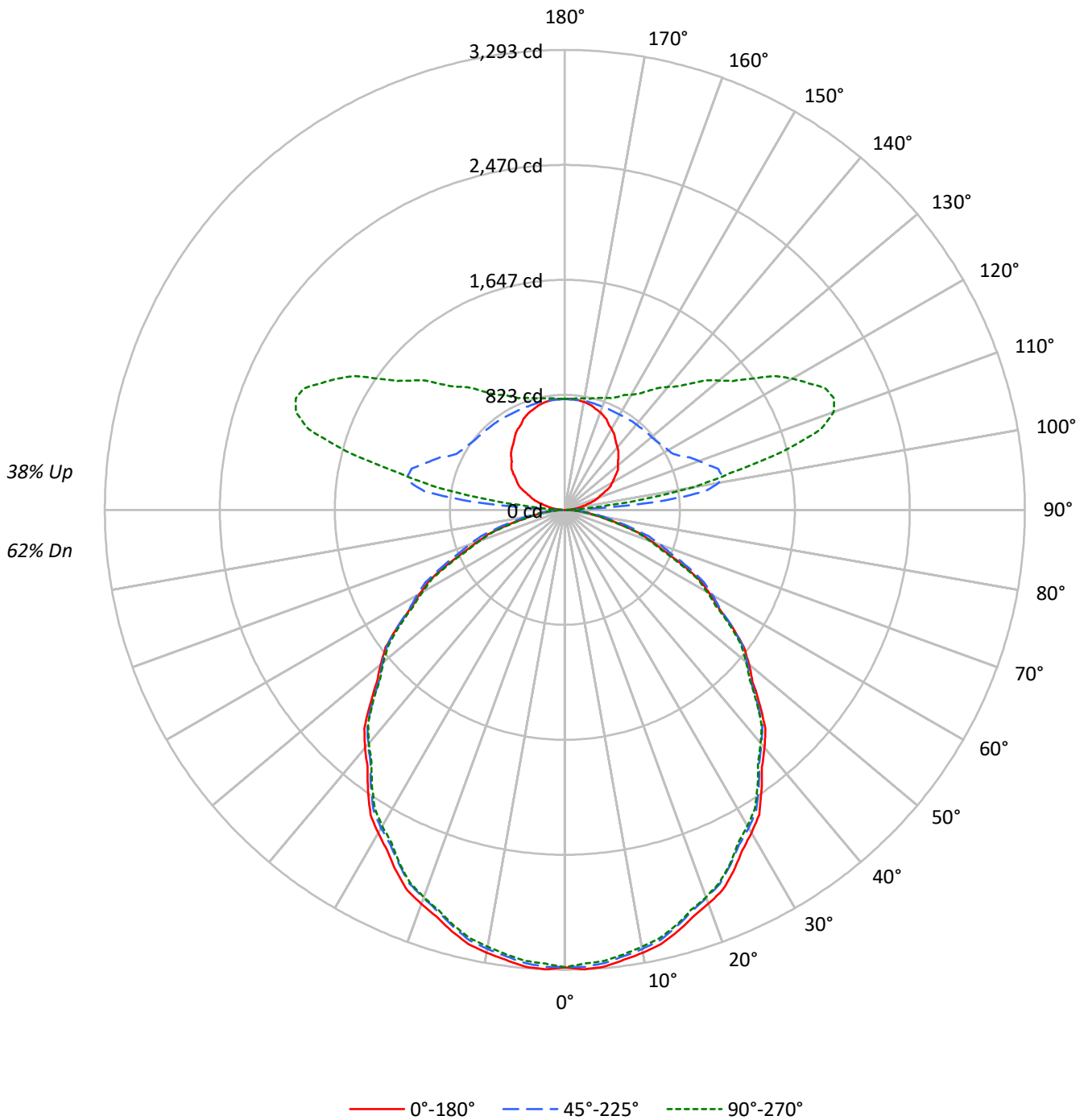
Lumens per Lamp: N/A
Luminaire Lumens: 13509.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 127.7
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	84	78	73	86	79	74	69	69	65	62	61	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	51	71	62	55	49	55	49	44	48	43	40	42	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	44	38	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	39	34	56	45	38	32	40	34	30	35	31	27	31	27	24	22
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15105	15105	15105
5°	15203	15083	15016
10°	15081	14960	14879
15°	14922	14756	14701
20°	14743	14516	14488
25°	14538	14273	14229
30°	14230	14015	13923
35°	13826	13631	13550
40°	13395	13186	13134
45°	12874	12704	12648
50°	12340	12236	12153
55°	11763	11763	11578
60°	11046	11259	10859
65°	10109	10612	9857
70°	8910	9767	8677
75°	7611	8741	7404
80°	5900	7359	5977
85°	3816	5648	5039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.3	2.3
10°-20°	870.5	6.4
20°-30°	1291.3	9.6
30°-40°	1510.9	11.2
40°-50°	1504.2	11.1
50°-60°	1298.9	9.6
60°-70°	935.0	6.9
70°-80°	490.3	3.6
80°-90°	123.6	0.9
90°-100°	374.7	2.8
100°-110°	1031.0	7.6
110°-120°	1064.2	7.9
120°-130°	852.6	6.3
130°-140°	669.7	5.0
140°-150°	513.2	3.8
150°-160°	369.0	2.7
160°-170°	225.6	1.7
170°-180°	76.1	0.6
0°-30°	2470.1	18.3
0°-40°	3981.0	29.5
0°-60°	6784.0	50.2
0°-90°	8332.9	61.7
90°-120°	2470.0	18.3
90°-150°	4505.5	33.4
90°-180°	5176.0	38.3
0°-180°	13509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3274	3274	3274	3274	3274	
5°	3283	3246	3257	3248	3243	311
15°	3124	3085	3090	3084	3078	881
25°	2856	2808	2804	2787	2796	1313
35°	2455	2421	2420	2398	2406	1535
45°	1973	1956	1947	1942	1939	1523
55°	1463	1460	1463	1442	1440	1305
65°	926	954	972	934	903	918
75°	427	466	490	458	415	458
85°	72	95	107	101	95	95
90°	2	7	12	15	15	6
95°	56	205	663	283	181	59
105°	184	283	1136	1730	1614	194
115°	326	397	911	1814	2059	322
125°	450	512	827	1398	1638	401
135°	543	602	803	1131	1280	419
145°	627	670	791	964	1038	393
155°	710	733	786	866	891	326
165°	768	777	790	822	827	216
175°	794	796	791	801	800	75
180°	794	794	794	794	794	

TEST NUMBER: P564808

CATALOG NUMBER: SQ4-PW1-075U-125D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3274.4	3274.4	3274.4	3274.4	3274.4
2.5°	3292.8	3265.8	3274.4	3267.1	3251.3
5°	3283.0	3246.4	3257.1	3248.3	3242.6
7.5°	3249.6	3215.7	3223.6	3214.3	3210.9
10°	3219.6	3185.7	3193.6	3181.9	3176.3
12.5°	3184.9	3148.8	3156.7	3145.1	3141.7
15°	3124.4	3084.9	3089.7	3083.8	3078.2
17.5°	3054.0	3013.9	3014.7	3005.5	3004.3
20°	3003.2	2960.9	2957.0	2945.6	2951.3
22.5°	2947.8	2903.2	2899.3	2883.4	2891.3
25°	2856.1	2808.1	2804.1	2787.0	2795.5
27.5°	2749.9	2702.5	2702.6	2678.6	2687.6
30°	2671.4	2626.3	2631.0	2602.4	2613.7
32.5°	2588.3	2547.7	2550.3	2521.7	2533.0
35°	2455.1	2421.2	2420.4	2397.6	2406.0
37.5°	2318.9	2289.0	2284.3	2271.1	2273.3
40°	2224.3	2198.9	2189.6	2181.0	2181.0
42.5°	2125.0	2101.9	2092.7	2086.3	2084.1
45°	1973.3	1956.4	1947.3	1941.5	1938.7
47.5°	1823.3	1807.5	1799.6	1795.5	1792.7
50°	1719.4	1708.1	1705.0	1696.3	1693.4
52.5°	1615.5	1608.8	1605.7	1594.7	1591.9
55°	1462.6	1459.8	1462.6	1442.4	1439.6
57.5°	1303.4	1307.9	1317.2	1290.0	1283.2
60°	1197.2	1208.5	1220.3	1188.3	1177.0
62.5°	1088.8	1106.8	1123.4	1086.7	1070.9
65°	926.1	954.3	972.2	934.0	903.0
67.5°	769.1	804.1	825.7	784.5	749.5
70°	660.6	700.1	724.1	682.8	643.3
72.5°	566.0	610.0	629.5	590.5	551.0
75°	427.0	466.5	490.4	457.7	415.4
77.5°	302.9	340.2	360.0	331.5	296.6
80°	222.1	261.6	277.0	253.2	225.0
82.5°	157.5	190.2	200.8	186.5	167.3
85°	72.1	94.7	106.7	100.8	95.2
87.5°	18.8	35.6	46.2	46.9	49.2
90°	1.7	6.6	11.8	15.2	15.2
92.5°	23.3	99.7	172.8	66.3	54.4
95°	55.8	204.6	662.7	283.4	180.9
97.5°	90.9	226.8	1011.3	779.2	549.8
100°	116.6	240.6	1120.8	1131.3	923.0
102.5°	141.0	257.0	1149.2	1403.5	1212.4
105°	184.3	283.4	1136.0	1730.2	1614.4
107.5°	225.5	316.1	1071.5	1890.1	1924.5
110°	255.3	337.9	1022.8	1929.9	2048.9



TEST NUMBER: P564808

CATALOG NUMBER: SQ4-PW1-075U-125D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	282.3	362.3	974.1	1904.3	2085.4
115°	326.3	397.3	911.2	1814.4	2059.1
117.5°	368.2	433.7	871.3	1688.4	1965.1
120°	393.9	456.7	853.7	1593.9	1879.9
122.5°	416.9	479.7	841.5	1511.1	1782.5
125°	449.7	512.5	826.7	1398.4	1638.1
127.5°	480.8	540.6	816.9	1304.4	1514.7
130°	497.0	558.2	811.4	1248.6	1440.3
132.5°	515.9	577.1	807.4	1199.5	1372.7
135°	542.7	602.2	803.0	1131.0	1279.7
137.5°	567.7	622.9	799.3	1075.6	1198.2
140°	586.6	637.9	797.9	1038.8	1149.6
142.5°	602.8	650.1	795.2	1006.0	1100.9
145°	627.2	670.2	791.2	963.6	1038.0
147.5°	653.2	690.2	789.1	926.1	985.6
150°	669.4	702.5	787.8	905.5	951.8
152.5°	684.3	714.7	786.4	887.7	926.1
155°	710.0	733.2	786.1	866.1	890.9
157.5°	728.6	747.5	786.1	848.4	865.5
160°	742.1	757.0	786.1	838.8	852.0
162.5°	753.0	765.2	787.4	830.6	841.2
165°	767.5	777.4	789.5	821.7	826.7
167.5°	777.6	785.2	791.2	814.2	815.5
170°	784.4	789.4	791.2	811.4	811.4
172.5°	789.8	792.1	791.2	807.4	806.0
175°	794.5	796.2	791.2	801.3	799.6
177.5°	795.9	795.9	790.5	798.5	795.9
180°	794.5	794.5	794.5	794.5	794.5

(END OF REPORT)