

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: P562777

Luminaire Tested: **SQ4-PC3-075U-125D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562777
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PC3-075U-125D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

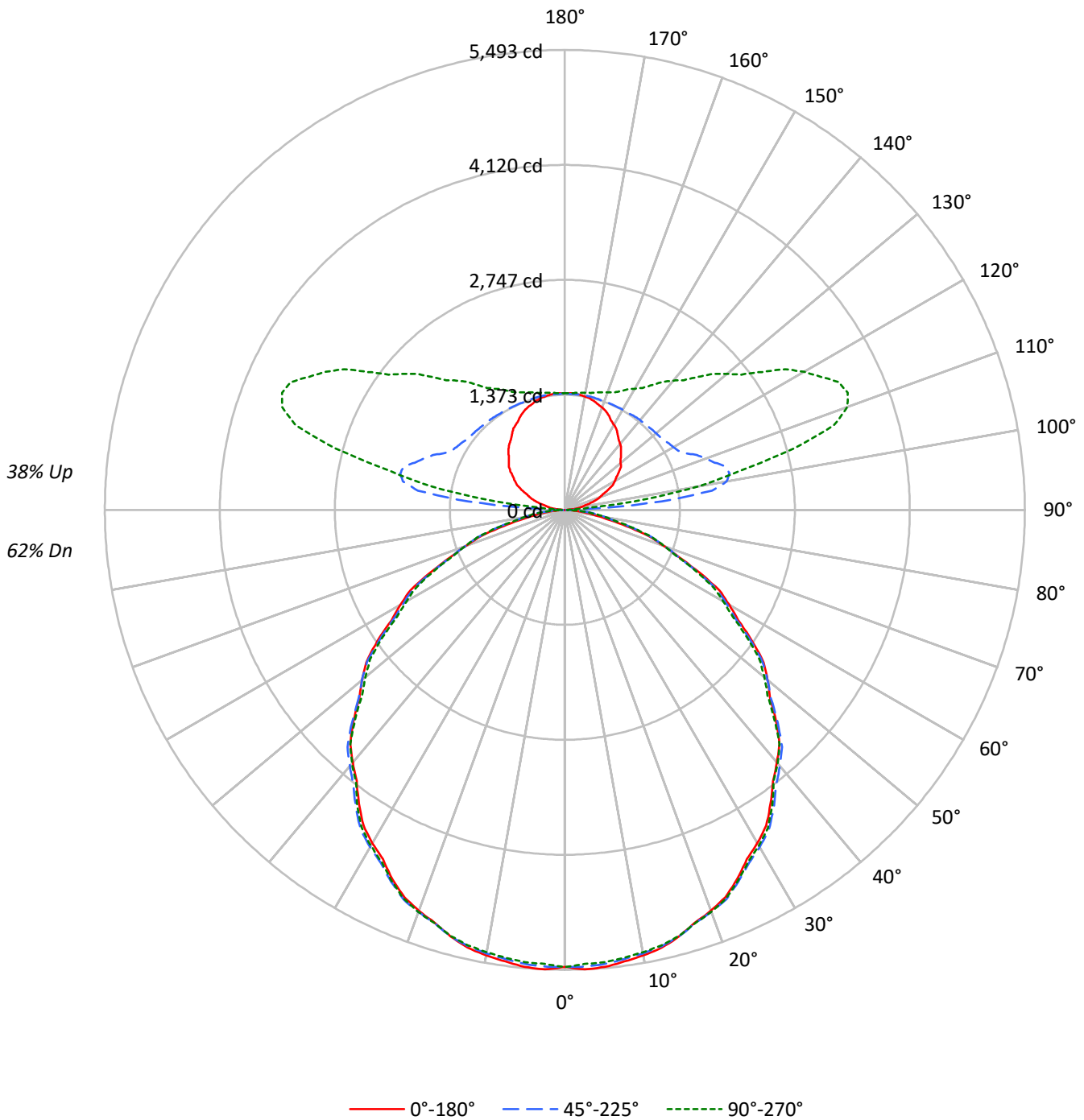
Lumens per Lamp: N/A
Luminaire Lumens: 23978.2 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 194.8
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	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	60	58	57	53
2	92	84	78	73	86	79	73	69	69	65	62	61	57	55	52	50	48	44
3	84	74	66	60	78	70	63	57	61	56	52	54	50	46	46	43	41	37
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35	32
5	70	58	50	44	66	55	47	42	49	43	38	43	38	34	37	34	31	28
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	27	31	27	24	21
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16794	16794	16794
5°	16920	16811	16748
10°	16879	16800	16752
15°	16790	16790	16774
20°	16680	16729	16729
25°	16522	16642	16591
30°	16321	16519	16447
35°	16078	16325	16211
40°	15813	16036	15874
45°	15525	15635	15393
50°	15119	15119	14877
55°	14639	14450	14233
60°	13932	13652	13435
65°	12877	12620	12510
70°	11275	11366	11321
75°	9072	10034	10093
80°	6447	8506	8597
85°	3924	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.8	2.2
10°-20°	1483.0	6.2
20°-30°	2245.9	9.4
30°-40°	2692.5	11.2
40°-50°	2745.4	11.4
50°-60°	2396.6	10.0
60°-70°	1715.7	7.2
70°-80°	883.7	3.7
80°-90°	227.0	0.9
90°-100°	656.8	2.7
100°-110°	1807.0	7.5
110°-120°	1865.1	7.8
120°-130°	1494.3	6.2
130°-140°	1173.7	4.9
140°-150°	899.4	3.8
150°-160°	646.7	2.7
160°-170°	395.4	1.6
170°-180°	133.3	0.6
0°-30°	4245.7	17.7
0°-40°	6938.1	28.9
0°-60°	12080.1	50.4
0°-90°	14906.6	62.2
90°-120°	4328.8	18.1
90°-150°	7896.3	32.9
90°-180°	9072.0	37.8
0°-180°	23978.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5461	5461	5461	5461	5461	
5°	5481	5426	5445	5430	5425	520
15°	5274	5229	5274	5273	5268	1487
25°	4869	4834	4904	4889	4889	2241
35°	4282	4273	4348	4318	4318	2678
45°	3570	3560	3595	3549	3539	2748
55°	2730	2696	2695	2654	2654	2434
65°	1770	1730	1734	1719	1719	1750
75°	764	798	844	849	849	825
85°	111	171	202	207	202	151
90°	3	12	21	27	27	11
95°	98	358	1161	497	317	103
105°	323	497	1991	3032	2830	340
115°	572	696	1597	3180	3609	564
125°	788	898	1449	2451	2871	703
135°	951	1055	1407	1982	2243	734
145°	1099	1174	1387	1689	1819	689
155°	1244	1285	1378	1518	1561	572
165°	1345	1362	1384	1440	1449	379
175°	1392	1395	1387	1404	1401	132
180°	1392	1392	1392	1392	1392	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5460.6	5460.6	5460.6	5460.6	5460.6
2.5°	5493.0	5445.5	5460.6	5448.0	5428.2
5°	5480.8	5426.4	5445.4	5430.1	5425.2
7.5°	5441.4	5387.0	5412.1	5401.8	5396.9
10°	5405.0	5350.6	5379.7	5369.5	5364.5
12.5°	5356.4	5306.0	5339.2	5329.1	5328.1
15°	5273.5	5229.0	5273.5	5273.4	5268.5
17.5°	5169.4	5128.8	5176.4	5179.4	5176.4
20°	5096.6	5052.1	5111.7	5106.8	5111.7
22.5°	5007.6	4971.0	5034.9	5021.8	5026.8
25°	4869.0	4834.4	4904.4	4889.3	4889.3
27.5°	4705.2	4680.5	4756.8	4740.6	4740.6
30°	4596.0	4571.3	4651.6	4631.4	4631.4
32.5°	4474.7	4457.8	4534.3	4510.0	4510.0
35°	4282.5	4272.6	4348.3	4317.9	4317.9
37.5°	4084.3	4075.4	4144.0	4107.3	4095.4
40°	3938.7	3933.8	3994.3	3953.9	3953.9
42.5°	3793.1	3788.1	3840.6	3792.1	3792.1
45°	3569.6	3559.7	3594.9	3549.2	3539.3
47.5°	3325.9	3316.0	3338.0	3288.4	3283.4
50°	3160.1	3150.2	3160.1	3114.4	3109.5
52.5°	2990.2	2972.4	2974.0	2928.5	2927.5
55°	2730.3	2695.7	2694.9	2654.5	2654.5
57.5°	2455.2	2409.8	2413.8	2379.3	2374.3
60°	2265.1	2215.7	2219.6	2189.2	2184.2
62.5°	2079.1	2021.7	2033.6	1999.2	1998.2
65°	1769.6	1730.1	1734.2	1719.1	1719.1
67.5°	1472.3	1435.8	1462.2	1450.1	1449.1
70°	1253.9	1229.2	1264.0	1263.9	1259.0
72.5°	1051.7	1050.7	1094.1	1094.2	1097.2
75°	763.5	798.1	844.4	849.4	849.4
77.5°	509.7	571.0	621.9	623.9	622.9
80°	364.0	433.3	480.3	490.3	485.4
82.5°	246.7	319.9	359.0	369.0	364.0
85°	111.2	170.6	202.2	207.2	202.2
87.5°	33.0	70.3	85.0	86.1	78.1
90°	3.0	11.7	20.7	26.7	26.7
92.5°	40.9	174.7	302.8	116.3	95.4
95°	97.8	358.5	1161.4	496.6	317.0
97.5°	159.4	397.5	1772.4	1365.6	963.5
100°	204.4	421.7	1964.3	1982.7	1617.7
102.5°	247.1	450.5	2014.1	2459.8	2124.9
105°	322.9	496.8	1991.0	3032.3	2829.5
107.5°	395.2	554.0	1877.8	3312.6	3372.9
110°	447.4	592.2	1792.5	3382.3	3590.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	494.8	635.0	1707.2	3337.4	3654.9
115°	571.8	696.4	1597.0	3180.0	3608.7
117.5°	645.3	760.0	1527.0	2959.0	3444.0
120°	690.3	800.4	1496.2	2793.5	3294.6
122.5°	730.6	840.7	1474.9	2648.3	3124.0
125°	788.1	898.2	1448.8	2450.9	2871.0
127.5°	842.6	947.5	1431.6	2286.2	2654.7
130°	871.1	978.3	1422.2	2188.3	2524.3
132.5°	904.3	1011.4	1415.0	2102.2	2405.8
135°	951.1	1055.4	1407.3	1982.1	2242.8
137.5°	994.9	1091.7	1400.8	1885.1	2100.0
140°	1028.1	1117.9	1398.4	1820.6	2014.7
142.5°	1056.5	1139.4	1393.7	1763.1	1929.4
145°	1099.2	1174.5	1386.6	1688.8	1819.2
147.5°	1144.8	1209.7	1383.0	1623.0	1727.3
150°	1173.3	1231.2	1380.7	1586.9	1668.1
152.5°	1199.3	1252.7	1378.3	1555.8	1623.0
155°	1244.4	1284.9	1377.7	1517.9	1561.4
157.5°	1277.0	1310.0	1377.7	1486.8	1517.0
160°	1300.7	1326.7	1377.7	1470.1	1493.3
162.5°	1319.6	1341.1	1380.1	1455.8	1474.3
165°	1345.1	1362.5	1383.6	1440.1	1448.8
167.5°	1362.9	1376.2	1386.6	1426.9	1429.3
170°	1374.7	1383.4	1386.6	1422.2	1422.2
172.5°	1384.2	1388.3	1386.6	1415.0	1412.7
175°	1392.5	1395.4	1386.6	1404.3	1401.4
177.5°	1394.9	1394.9	1385.4	1399.5	1394.9
180°	1392.5	1392.5	1392.5	1392.5	1392.5

(END OF REPORT)