

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: P563463

Luminaire Tested: **SQ4-PP3-075U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563463
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-125D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

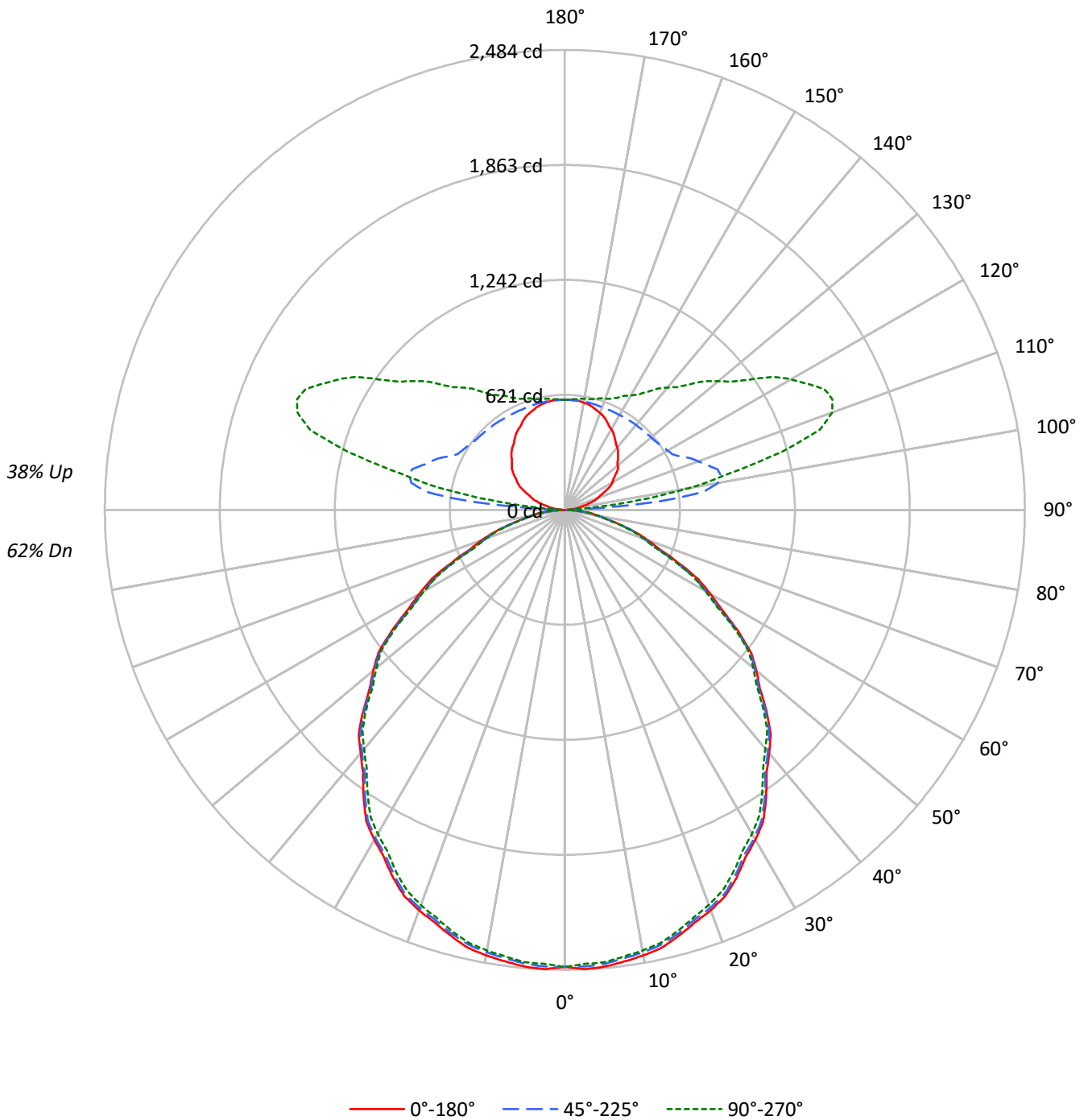
Lumens per Lamp: N/A
Luminaire Lumens: 10200.8 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 97.3
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	93	89	94	90	87	84	79	77	75	69	67	66	60	58	57	53
2	92	84	78	73	86	79	74	69	70	66	62	61	58	55	53	51	49	45
3	84	74	67	61	78	70	63	58	62	57	52	54	50	47	47	44	42	38
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	33
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	31	28	25
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	28	25	22
8	56	44	36	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	37	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15181	15181	15181
5°	15292	15199	15146
10°	15267	15159	15091
15°	15166	15083	15001
20°	15065	14980	14867
25°	14887	14783	14637
30°	14611	14534	14350
35°	14228	14131	13953
40°	13773	13687	13530
45°	13398	13304	13171
50°	12916	12834	12709
55°	12248	12085	11993
60°	11150	10830	10777
65°	9823	9414	9382
70°	8481	8130	8130
75°	7301	7196	7094
80°	6436	6514	6358
85°	5039	5498	5498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	2.3
10°-20°	666.4	6.5
20°-30°	998.2	9.8
30°-40°	1170.8	11.5
40°-50°	1174.5	11.5
50°-60°	1001.9	9.8
60°-70°	653.4	6.4
70°-80°	327.8	3.2
80°-90°	92.2	0.9
90°-100°	281.1	2.8
100°-110°	773.3	7.6
110°-120°	798.1	7.8
120°-130°	639.5	6.3
130°-140°	502.3	4.9
140°-150°	384.9	3.8
150°-160°	276.7	2.7
160°-170°	169.2	1.7
170°-180°	57.0	0.6
0°-30°	1898.0	18.6
0°-40°	3068.8	30.1
0°-60°	5245.2	51.4
0°-90°	6318.7	61.9
90°-120°	1852.5	18.2
90°-150°	3379.1	33.1
90°-180°	3882.0	38.1
0°-180°	10200.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2468	2468	2468	2468	2468	
5°	2477	2454	2462	2453	2453	235
15°	2382	2358	2369	2360	2356	672
25°	2194	2168	2178	2159	2157	1009
35°	1895	1876	1882	1860	1858	1184
45°	1540	1530	1529	1514	1514	1186
55°	1142	1138	1127	1120	1118	1015
65°	675	662	647	642	645	674
75°	307	307	303	301	298	333
85°	71	78	78	78	78	84
90°	1	5	9	11	11	5
95°	42	153	497	212	136	44
105°	138	213	852	1298	1211	146
115°	245	298	683	1361	1544	241
125°	337	384	620	1049	1229	301
135°	407	452	602	848	960	314
145°	470	503	593	723	778	295
155°	532	550	590	650	668	245
165°	576	583	592	616	620	162
175°	596	597	593	601	600	57
180°	596	596	596	596	596	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2468.2	2468.2	2468.2	2468.2	2468.2
2.5°	2483.7	2463.4	2468.2	2464.5	2454.3
5°	2476.8	2453.6	2461.7	2453.0	2453.0
7.5°	2460.0	2434.6	2442.6	2434.0	2433.6
10°	2444.4	2419.0	2427.1	2418.4	2416.3
12.5°	2421.9	2396.5	2406.3	2395.9	2395.5
15°	2381.6	2358.4	2368.7	2359.9	2355.7
17.5°	2336.2	2310.8	2323.2	2311.1	2309.4
20°	2301.6	2276.2	2288.6	2271.3	2271.3
22.5°	2260.1	2234.7	2248.8	2226.3	2226.3
25°	2193.5	2168.1	2178.3	2158.8	2156.7
27.5°	2114.3	2089.3	2100.0	2077.9	2077.5
30°	2057.2	2033.9	2046.4	2022.5	2020.4
32.5°	1994.9	1973.3	1982.3	1958.5	1956.4
35°	1894.9	1875.9	1882.0	1860.3	1858.2
37.5°	1789.8	1770.3	1777.3	1758.6	1757.8
40°	1715.4	1702.7	1704.6	1689.3	1685.1
42.5°	1646.2	1631.8	1633.6	1618.5	1617.6
45°	1540.2	1529.6	1529.4	1514.2	1514.2
47.5°	1427.7	1419.7	1417.3	1404.8	1404.3
50°	1349.8	1343.5	1341.2	1330.3	1328.2
52.5°	1268.5	1265.5	1258.1	1249.0	1248.6
55°	1142.2	1137.9	1127.0	1120.5	1118.4
57.5°	1005.0	996.5	984.2	974.8	976.5
60°	906.4	897.9	880.4	876.1	876.1
62.5°	811.2	801.0	783.5	777.5	780.9
65°	674.9	662.2	646.8	642.5	644.6
67.5°	551.2	539.8	523.1	523.0	521.3
70°	471.6	465.2	452.1	452.1	452.1
72.5°	400.6	397.7	388.1	388.0	386.3
75°	307.2	307.2	302.8	300.6	298.5
77.5°	230.2	231.0	228.9	226.6	222.8
80°	181.7	185.9	183.9	181.7	179.5
82.5°	136.7	140.9	140.6	136.7	136.3
85°	71.4	77.7	77.9	77.9	77.9
87.5°	19.3	26.8	29.5	30.0	31.7
90°	1.3	5.0	8.9	11.4	11.4
92.5°	17.5	74.8	129.6	49.8	40.8
95°	41.8	153.4	497.0	212.5	135.7
97.5°	68.2	170.1	758.5	584.4	412.3
100°	87.5	180.5	840.6	848.5	692.3
102.5°	105.7	192.8	861.9	1052.6	909.3
105°	138.2	212.6	852.0	1297.6	1210.8
107.5°	169.1	237.1	803.6	1417.6	1443.4
110°	191.5	253.4	767.1	1447.4	1536.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	211.7	271.7	730.6	1428.2	1564.1
115°	244.7	298.0	683.4	1360.8	1544.3
117.5°	276.1	325.2	653.5	1266.3	1473.8
120°	295.4	342.5	640.3	1195.4	1409.9
122.5°	312.7	359.8	631.2	1133.3	1336.9
125°	337.3	384.4	620.0	1048.8	1228.6
127.5°	360.6	405.5	612.6	978.3	1136.0
130°	372.8	418.6	608.6	936.4	1080.2
132.5°	387.0	432.8	605.5	899.6	1029.5
135°	407.0	451.6	602.2	848.2	959.8
137.5°	425.8	467.2	599.5	806.7	898.7
140°	440.0	478.4	598.4	779.1	862.2
142.5°	452.1	487.6	596.4	754.5	825.6
145°	470.4	502.6	593.4	722.7	778.5
147.5°	489.9	517.7	591.9	694.5	739.2
150°	502.1	526.9	590.8	679.1	713.8
152.5°	513.2	536.1	589.8	665.8	694.5
155°	532.5	549.9	589.6	649.6	668.2
157.5°	546.5	560.6	589.6	636.3	649.2
160°	556.6	567.8	589.6	629.1	639.0
162.5°	564.7	573.9	590.6	623.0	630.9
165°	575.6	583.1	592.1	616.3	620.0
167.5°	583.2	588.9	593.4	610.6	611.6
170°	588.3	592.0	593.4	608.6	608.6
172.5°	592.4	594.1	593.4	605.5	604.5
175°	595.9	597.1	593.4	601.0	599.7
177.5°	596.9	596.9	592.9	598.9	596.9
180°	595.9	595.9	595.9	595.9	595.9

(END OF REPORT)