

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: P563559

Luminaire Tested: **SQ4-PP3-0U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563559
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PP3-0U-125D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

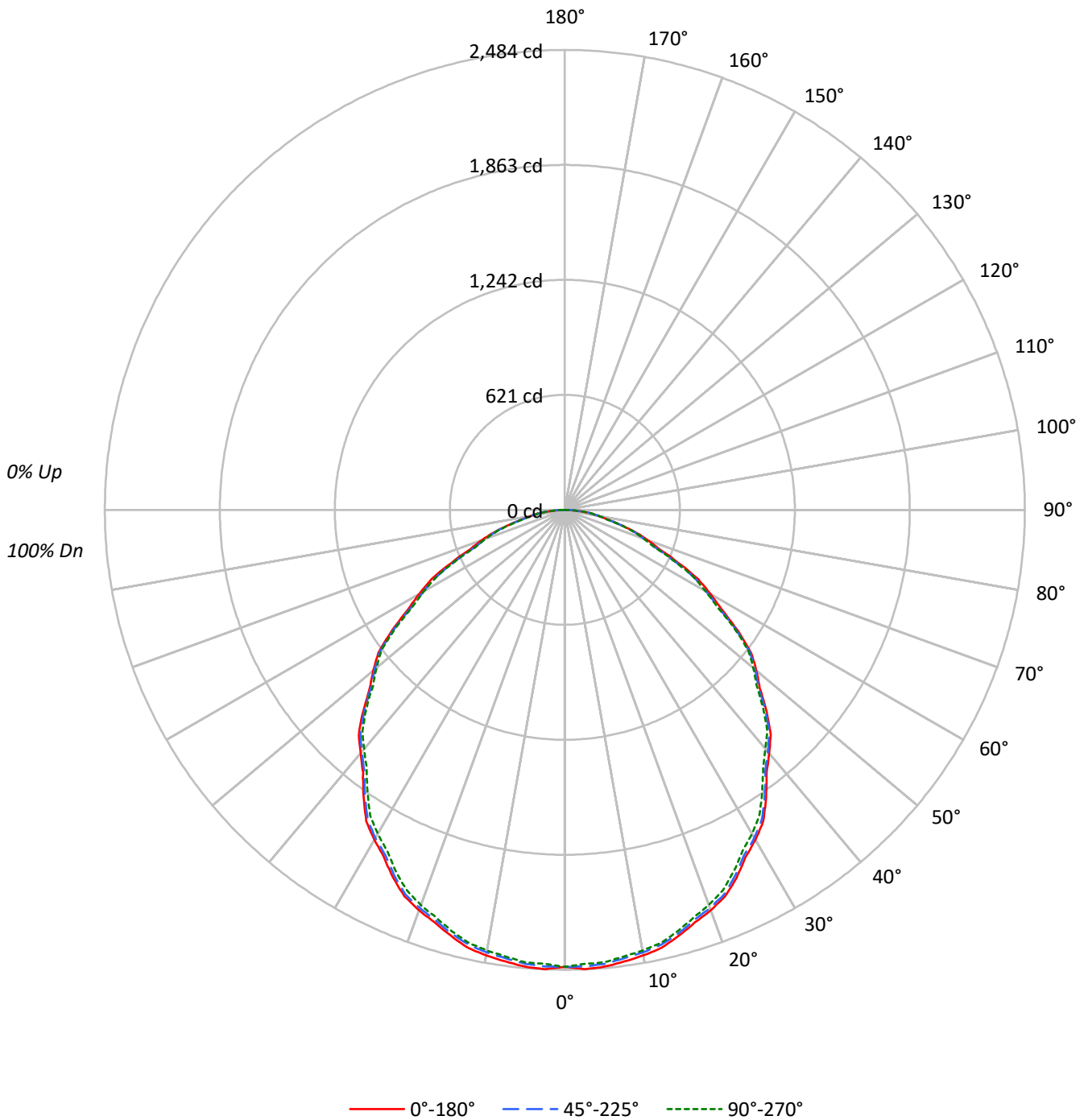
Lumens per Lamp: N/A
Luminaire Lumens: 6317.2 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

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	3.7
10°-20°	666.4	10.5
20°-30°	998.2	15.8
30°-40°	1170.8	18.5
40°-50°	1174.5	18.6
50°-60°	1001.9	15.9
60°-70°	653.4	10.3
70°-80°	327.8	5.2
80°-90°	90.7	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1898.0	30.0
0°-40°	3068.8	48.6
0°-60°	5245.2	83.0
0°-90°	6317.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6317.2	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	86
90°	0	0	0	0	0	



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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°	19.0	25.8	27.7	27.7	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)