

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: P564520

Luminaire Tested: **SQ4-PR1-150U-125D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564520
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-150U-125D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

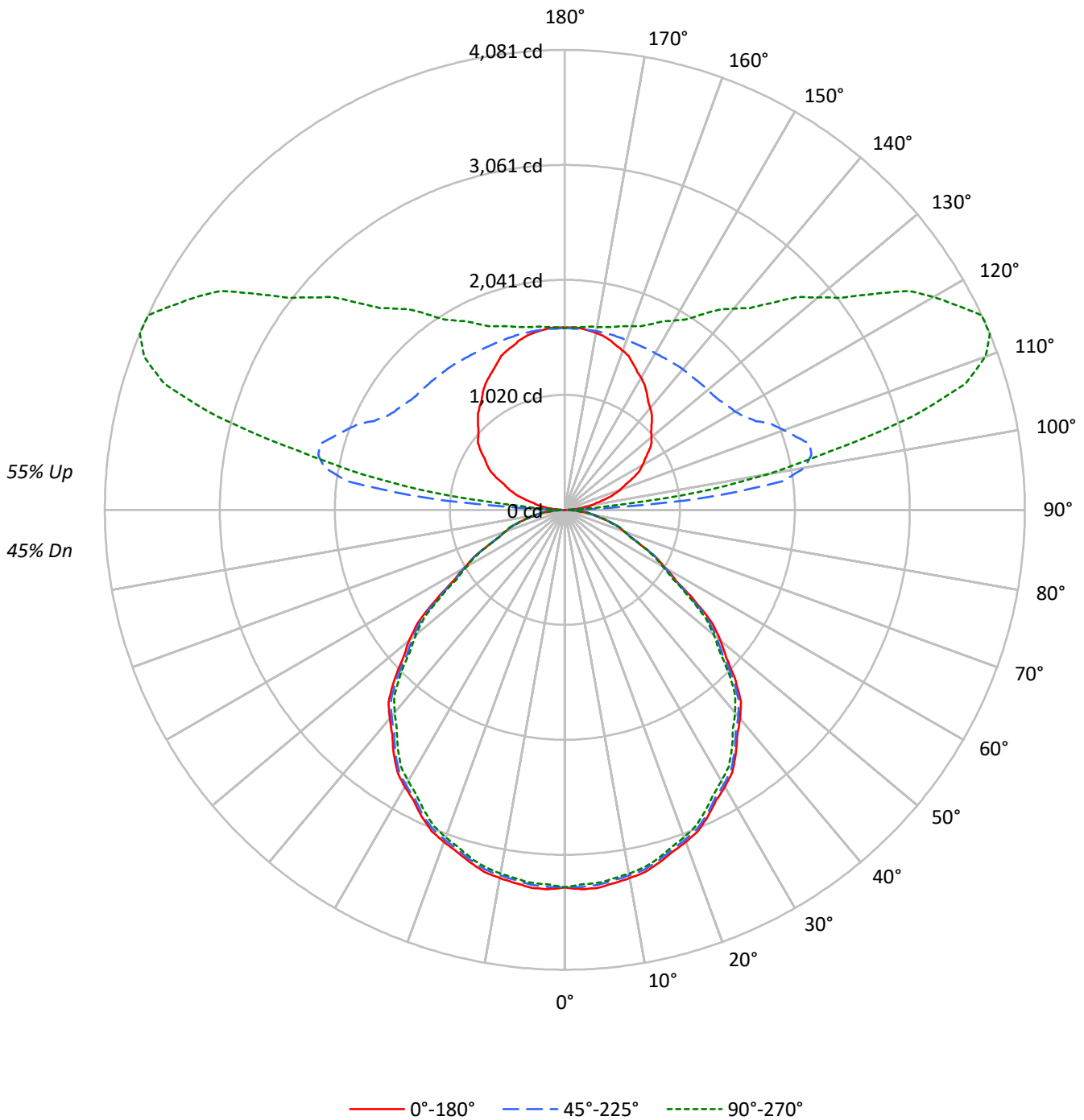
Lumens per Lamp: N/A
Luminaire Lumens: 18791.7 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 167.8
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	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45				
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38				
2	88	81	75	70	81	75	69	65	62	59	55	51	48	46	40	39	37	32				
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28				
4	74	63	56	50	68	58	52	47	49	44	40	40	37	34	32	30	28	24				
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24	21				
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18				
7	58	46	38	33	53	42	35	31	36	31	27	30	26	23	24	21	19	16				
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	15	13				
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15451	15451	15451
5°	15590	15470	15390
10°	15541	15433	15351
15°	15472	15376	15293
20°	15395	15295	15182
25°	15286	15183	15007
30°	15121	15013	14799
35°	14898	14768	14557
40°	14558	14402	14141
45°	13965	13720	13438
50°	12920	12609	12360
55°	11277	11021	10789
60°	9502	9423	9236
65°	8219	8250	8188
70°	7549	7588	7588
75°	7251	7251	7302
80°	6822	6896	6822
85°	5499	6108	6108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.7	1.7
10°-20°	906.2	4.8
20°-30°	1366.8	7.3
30°-40°	1628.6	8.7
40°-50°	1605.7	8.5
50°-60°	1227.1	6.5
60°-70°	759.4	4.0
70°-80°	431.3	2.3
80°-90°	134.6	0.7
90°-100°	750.7	4.0
100°-110°	2029.9	10.8
110°-120°	2134.1	11.4
120°-130°	1733.5	9.2
130°-140°	1359.8	7.2
140°-150°	1043.6	5.6
150°-160°	750.6	4.0
160°-170°	458.5	2.4
170°-180°	154.6	0.8
0°-30°	2589.8	13.8
0°-40°	4218.4	22.4
0°-60°	7051.2	37.5
0°-90°	8376.5	44.6
90°-120°	4914.7	26.2
90°-150°	9051.5	48.2
90°-180°	10415.0	55.4
0°-180°	18791.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3349	3349	3349	3349	3349	
5°	3367	3330	3341	3329	3323	319
15°	3240	3206	3220	3208	3202	914
25°	3003	2966	2983	2951	2948	1382
35°	2646	2614	2622	2588	2585	1651
45°	2141	2112	2103	2066	2060	1640
55°	1402	1380	1370	1347	1342	1256
65°	753	747	756	750	750	763
75°	407	407	407	410	410	430
85°	104	110	115	115	115	121
90°	4	10	23	24	23	12
95°	116	409	1248	646	384	122
105°	377	583	2252	3322	3186	397
115°	664	812	1868	3615	4081	656
125°	909	1042	1683	2840	3337	811
135°	1090	1220	1638	2294	2596	843
145°	1268	1363	1615	1963	2113	793
155°	1431	1487	1602	1761	1819	660
165°	1558	1573	1608	1671	1680	439
175°	1617	1616	1610	1631	1628	154
180°	1615	1615	1615	1615	1615	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3349.4	3349.4	3349.4	3349.4	3349.4
2.5°	3370.1	3340.8	3349.4	3342.1	3326.3
5°	3366.7	3330.0	3340.7	3329.0	3323.4
7.5°	3340.7	3304.6	3315.3	3303.7	3300.3
10°	3317.6	3283.8	3294.6	3282.9	3277.2
12.5°	3292.2	3256.1	3269.2	3255.2	3249.6
15°	3239.7	3205.9	3219.5	3207.9	3202.2
17.5°	3182.0	3145.9	3159.5	3146.1	3138.8
20°	3135.9	3102.0	3115.7	3095.4	3092.6
22.5°	3085.1	3051.3	3064.9	3037.8	3037.2
25°	3003.2	2966.5	2983.0	2951.2	2948.4
27.5°	2905.7	2871.8	2885.5	2853.1	2849.7
30°	2838.7	2804.9	2818.5	2783.8	2778.2
32.5°	2762.6	2731.0	2742.4	2707.7	2704.3
35°	2645.5	2614.4	2622.4	2587.7	2584.9
37.5°	2512.2	2484.0	2488.5	2450.4	2447.6
40°	2417.5	2389.3	2391.6	2351.1	2348.3
42.5°	2313.7	2285.5	2283.1	2242.7	2239.8
45°	2140.6	2112.4	2103.1	2065.5	2059.8
47.5°	1943.3	1915.1	1897.7	1867.0	1863.1
50°	1800.2	1772.0	1756.9	1730.7	1722.3
52.5°	1645.5	1617.3	1604.6	1580.7	1572.3
55°	1402.1	1379.5	1370.3	1347.1	1341.5
57.5°	1170.7	1155.5	1152.8	1130.3	1128.0
60°	1029.9	1021.4	1021.3	1001.1	1001.1
62.5°	909.9	903.7	908.2	894.8	892.6
65°	753.0	747.3	755.8	750.1	750.1
67.5°	628.9	628.9	634.1	631.8	631.8
70°	559.7	559.7	562.6	562.6	562.6
72.5°	497.4	495.1	502.5	502.5	500.2
75°	406.8	406.8	406.8	409.7	409.7
77.5°	316.8	317.3	319.6	319.0	316.8
80°	256.8	259.6	259.6	256.8	256.8
82.5°	196.8	199.6	199.6	199.0	196.8
85°	103.9	109.5	115.4	115.4	115.4
87.5°	30.7	41.1	50.7	51.0	48.4
90°	3.5	10.3	22.6	24.3	22.6
92.5°	49.4	180.0	355.1	154.1	111.6
95°	116.5	408.9	1248.5	646.1	384.3
97.5°	187.1	469.0	1946.1	1610.6	1182.8
100°	240.0	493.3	2163.2	2255.9	1824.1
102.5°	288.7	527.0	2239.7	2745.3	2422.3
105°	377.3	583.1	2251.8	3321.6	3185.6
107.5°	459.4	647.1	2153.4	3681.2	3726.4
110°	523.4	693.4	2065.8	3777.7	3969.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	580.4	739.6	1985.1	3758.4	4081.1
115°	664.3	812.2	1867.6	3615.3	4081.1
117.5°	746.3	885.1	1790.0	3396.5	3924.6
120°	796.4	932.4	1744.1	3239.6	3778.6
122.5°	843.7	977.0	1716.3	3071.4	3614.4
125°	909.4	1042.1	1683.2	2840.4	3336.9
127.5°	969.9	1100.2	1663.8	2652.0	3088.6
130°	1003.3	1137.6	1655.4	2535.6	2930.0
132.5°	1038.1	1171.1	1647.1	2430.5	2793.7
135°	1090.3	1219.5	1638.0	2293.5	2596.1
137.5°	1142.8	1264.9	1630.4	2182.3	2428.9
140°	1179.0	1292.9	1627.6	2110.8	2330.1
142.5°	1213.7	1320.8	1622.0	2046.2	2238.3
145°	1267.6	1362.9	1615.4	1963.1	2112.7
147.5°	1316.7	1401.0	1607.8	1887.9	2002.8
150°	1352.8	1427.7	1605.0	1847.0	1938.8
152.5°	1386.2	1451.5	1603.6	1809.1	1884.6
155°	1431.1	1487.2	1601.5	1761.1	1818.9
157.5°	1477.7	1516.8	1601.9	1727.6	1765.7
160°	1504.1	1536.4	1603.2	1706.5	1733.7
162.5°	1525.0	1551.9	1604.6	1689.6	1710.0
165°	1558.0	1573.3	1608.5	1671.3	1679.8
167.5°	1580.6	1591.2	1608.8	1655.5	1659.6
170°	1594.5	1599.6	1610.2	1648.5	1648.5
172.5°	1605.7	1606.7	1610.2	1640.1	1638.7
175°	1617.2	1615.5	1610.2	1631.0	1627.6
177.5°	1621.0	1616.9	1609.9	1623.7	1619.6
180°	1615.4	1615.4	1615.4	1615.4	1615.4

(END OF REPORT)