

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: P563931

Luminaire Tested: **SQ4-PR1-025U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563931
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-125D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

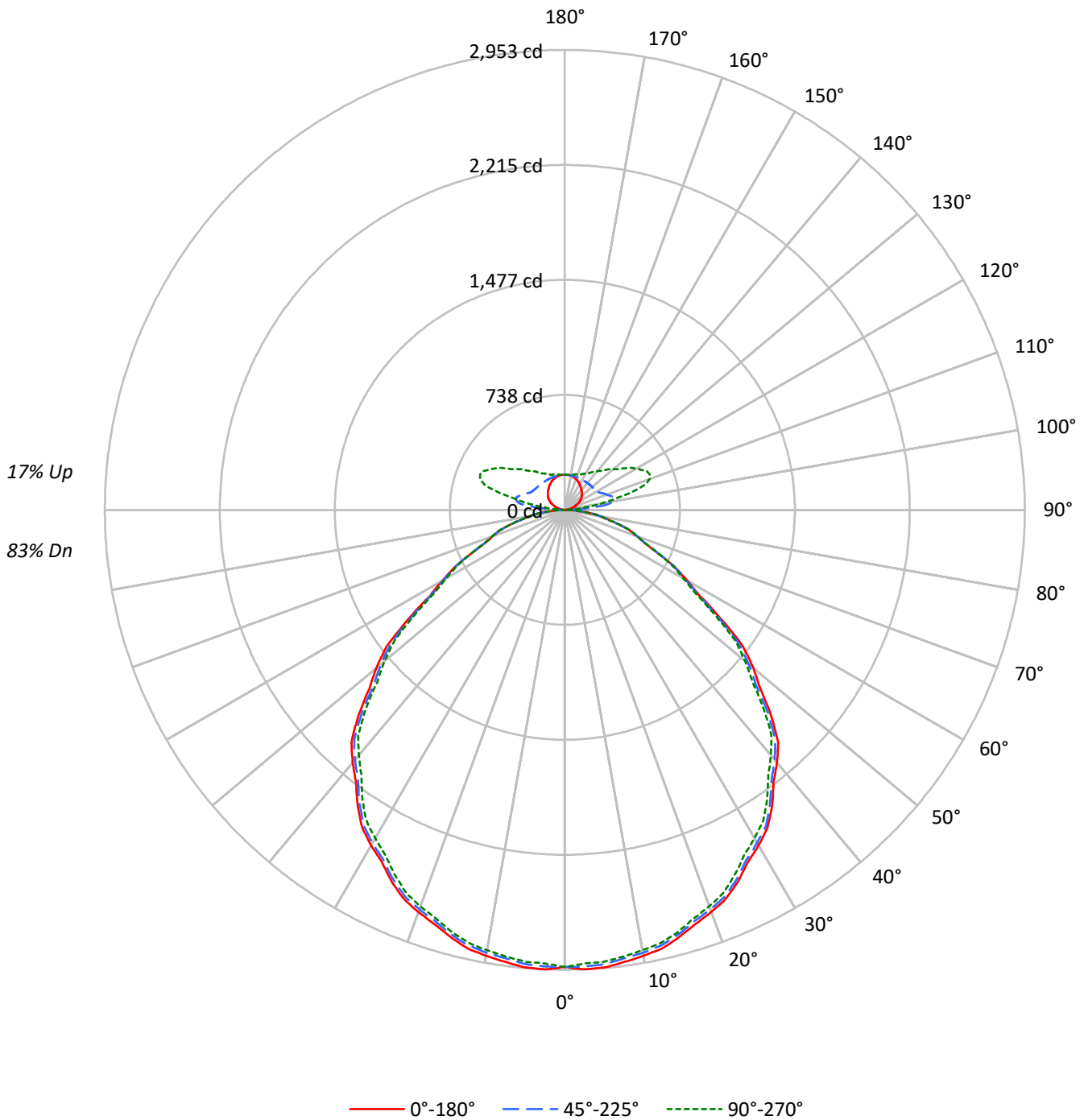
Lumens per Lamp: N/A
Luminaire Lumens: 8802.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 77.9
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71
2	97	89	83	78	93	86	80	75	80	75	71	74	70	67	69	66	63	60
3	89	79	71	65	85	76	69	64	71	65	60	66	61	57	61	58	54	52
4	81	70	62	56	78	68	60	55	63	57	52	59	54	50	55	51	47	45
5	75	63	55	48	72	61	53	47	57	50	45	53	48	43	50	45	41	39
6	69	57	48	42	66	55	47	42	52	45	40	48	43	38	45	41	37	34
7	64	52	43	37	62	50	42	37	47	40	35	44	38	34	42	37	33	31
8	60	47	39	33	57	46	38	33	43	36	32	41	35	31	38	33	29	27
9	56	43	35	30	54	42	35	30	40	33	29	37	32	28	35	30	27	25
10	52	40	32	27	50	39	32	27	37	30	26	35	29	25	33	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18053	18053	18053
5°	18215	18075	17981
10°	18158	18031	17937
15°	18078	17965	17869
20°	17987	17871	17739
25°	17860	17740	17535
30°	17668	17542	17291
35°	17407	17255	17008
40°	17010	16828	16523
45°	16317	16031	15701
50°	15095	14732	14441
55°	13175	12877	12606
60°	11102	11009	10791
65°	9603	9639	9566
70°	8819	8866	8866
75°	8472	8472	8532
80°	7970	8058	7970
85°	6422	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.6	3.2
10°-20°	794.1	9.0
20°-30°	1197.8	13.6
30°-40°	1427.1	16.2
40°-50°	1407.0	16.0
50°-60°	1075.3	12.2
60°-70°	665.4	7.6
70°-80°	378.0	4.3
80°-90°	116.2	1.3
90°-100°	110.0	1.3
100°-110°	289.3	3.3
110°-120°	300.0	3.4
120°-130°	240.6	2.7
130°-140°	188.8	2.1
140°-150°	144.9	1.6
150°-160°	104.4	1.2
160°-170°	63.9	0.7
170°-180°	21.6	0.2
0°-30°	2269.4	25.8
0°-40°	3696.6	42.0
0°-60°	6178.9	70.2
0°-90°	7338.6	83.4
90°-120°	699.3	7.9
90°-150°	1273.6	14.5
90°-180°	1463.0	16.6
0°-180°	8802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2935	2935	2935	2935	2935	
5°	2950	2918	2928	2917	2912	280
15°	2839	2809	2821	2811	2806	801
25°	2632	2600	2614	2586	2584	1211
35°	2318	2291	2298	2268	2265	1447
45°	1876	1851	1843	1810	1805	1437
55°	1229	1209	1201	1180	1176	1101
65°	660	655	662	657	657	668
75°	356	356	356	359	359	376
85°	91	96	101	101	101	106
90°	1	4	12	6	6	5
95°	14	57	190	98	67	16
105°	52	79	320	486	453	55
115°	93	112	256	511	583	91
125°	129	144	233	394	465	114
135°	153	169	226	318	360	119
145°	178	189	223	271	292	112
155°	201	207	223	245	252	92
165°	217	220	223	232	234	61
175°	226	226	224	227	227	21
180°	226	226	226	226	226	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2935.1	2935.1	2935.1	2935.1	2935.1
2.5°	2953.3	2927.6	2935.1	2928.7	2914.8
5°	2950.2	2918.1	2927.5	2917.3	2912.3
7.5°	2927.5	2895.8	2905.2	2895.1	2892.1
10°	2907.3	2877.6	2887.0	2876.8	2871.9
12.5°	2885.0	2853.4	2864.8	2852.5	2847.6
15°	2839.0	2809.3	2821.3	2811.1	2806.1
17.5°	2788.4	2756.8	2768.7	2756.9	2750.5
20°	2748.0	2718.3	2730.3	2712.5	2710.1
22.5°	2703.5	2673.8	2685.8	2662.0	2661.5
25°	2631.7	2599.6	2614.0	2586.1	2583.7
27.5°	2546.2	2516.6	2528.6	2500.2	2497.2
30°	2487.6	2457.9	2469.9	2439.5	2434.5
32.5°	2420.9	2393.2	2403.2	2372.8	2369.8
35°	2318.2	2291.0	2298.0	2267.6	2265.1
37.5°	2201.4	2176.7	2180.7	2147.3	2144.8
40°	2118.5	2093.8	2095.8	2060.3	2057.8
42.5°	2027.5	2002.8	2000.7	1965.2	1962.8
45°	1875.8	1851.1	1842.9	1810.0	1805.0
47.5°	1702.9	1678.2	1662.9	1636.1	1632.6
50°	1577.5	1552.8	1539.6	1516.7	1509.2
52.5°	1442.0	1417.3	1406.1	1385.2	1377.8
55°	1228.6	1208.9	1200.8	1180.5	1175.5
57.5°	1025.9	1012.5	1010.2	990.4	988.5
60°	902.5	895.1	894.9	877.2	877.2
62.5°	797.3	791.9	795.8	784.2	782.2
65°	659.8	654.9	662.3	657.3	657.3
67.5°	551.1	551.1	555.7	553.6	553.6
70°	490.4	490.4	493.0	493.0	493.0
72.5°	435.8	433.9	440.4	440.3	438.4
75°	356.5	356.5	356.5	359.0	359.0
77.5°	277.6	278.1	280.1	279.6	277.6
80°	225.0	227.5	227.5	225.0	225.0
82.5°	172.4	174.9	174.9	174.4	172.4
85°	91.0	96.0	101.1	101.1	101.1
87.5°	26.6	35.1	42.8	41.6	39.6
90°	1.4	4.3	11.6	5.8	5.8
92.5°	6.1	29.3	64.8	28.7	18.5
95°	14.5	56.9	189.6	97.7	66.6
97.5°	25.2	62.5	283.7	225.6	166.2
100°	33.3	67.3	312.6	316.8	246.0
102.5°	40.2	71.9	320.7	394.6	334.0
105°	52.1	79.0	319.9	485.6	453.0
107.5°	64.3	89.2	301.6	532.8	540.7
110°	72.4	95.0	286.6	545.0	578.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	80.5	102.0	272.7	537.3	589.4
115°	92.6	112.4	256.2	511.1	583.3
117.5°	104.5	122.6	244.9	474.8	554.9
120°	111.4	128.4	240.3	450.4	528.3
122.5°	118.4	135.4	236.8	426.1	502.8
125°	128.8	144.4	233.0	393.8	464.6
127.5°	137.2	153.1	229.8	367.8	427.5
130°	141.8	158.8	228.7	351.5	406.7
132.5°	146.5	163.5	227.5	337.5	387.0
135°	153.4	169.0	225.8	317.9	360.4
137.5°	160.7	175.9	225.5	303.3	338.1
140°	166.4	180.6	224.3	291.7	324.2
142.5°	171.1	184.1	224.3	283.4	311.5
145°	178.0	189.3	222.9	271.1	292.4
147.5°	185.0	196.0	222.9	260.9	278.5
150°	189.6	199.5	222.9	255.1	269.2
152.5°	194.2	201.9	222.9	250.3	261.1
155°	201.2	206.8	222.9	244.8	251.8
157.5°	206.4	211.8	222.9	239.8	244.9
160°	209.9	214.1	222.9	237.4	240.3
162.5°	213.3	216.5	222.9	235.1	237.9
165°	217.1	219.9	222.9	231.6	234.5
167.5°	220.6	222.0	224.3	230.2	231.3
170°	222.9	224.3	224.3	230.1	230.1
172.5°	224.0	224.3	224.3	228.9	227.8
175°	225.8	225.8	224.3	227.2	227.2
177.5°	225.8	225.8	224.6	226.9	225.8
180°	225.8	225.8	225.8	225.8	225.8

(END OF REPORT)