

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: P563908

Luminaire Tested: **SQ4-PR1-025U-100D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563908
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-100D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

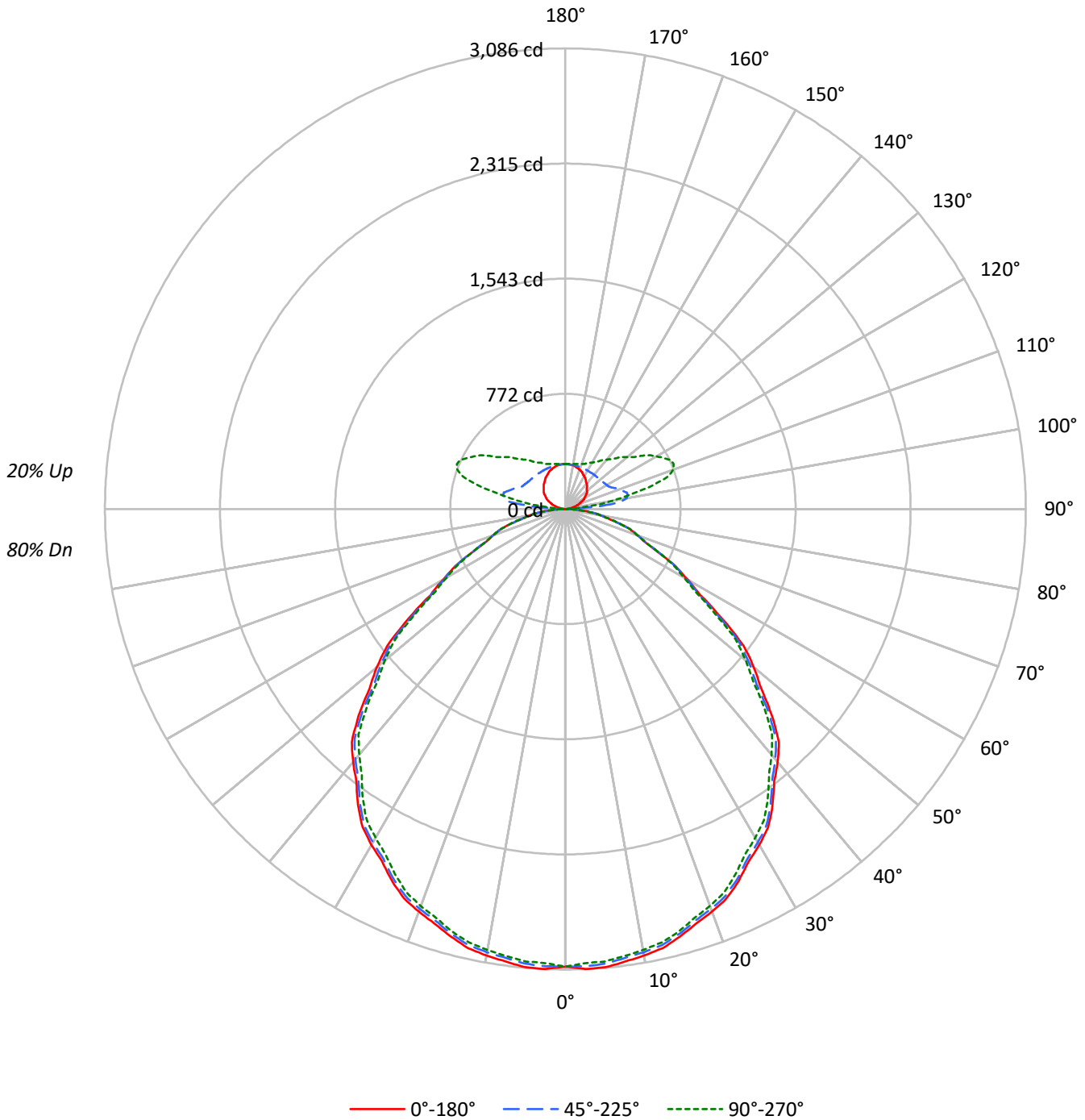
Lumens per Lamp: N/A
Luminaire Lumens: 9619.1 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 82.2
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	101	97	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	77	92	85	79	74	78	74	70	72	68	65	66	63	61	58
3	88	78	71	65	84	75	68	63	69	64	59	64	59	56	59	55	52	49
4	81	70	61	55	77	67	60	54	62	56	51	57	52	48	53	49	45	43
5	74	62	54	48	71	60	52	47	56	49	44	52	46	42	48	43	40	37
6	69	56	48	42	66	54	47	41	50	44	39	47	41	37	44	39	35	33
7	64	51	43	37	61	49	42	36	46	39	35	43	37	33	40	35	31	29
8	59	47	39	33	57	45	38	32	42	36	31	39	34	30	37	32	28	26
9	55	43	35	30	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	31	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14147	14147	14147
5°	14274	14164	14090
10°	14229	14130	14056
15°	14166	14078	14002
20°	14095	14004	13900
25°	13996	13902	13740
30°	13845	13746	13549
35°	13640	13521	13328
40°	13330	13186	12948
45°	12786	12562	12303
50°	11829	11544	11317
55°	10324	10090	9878
60°	8700	8626	8457
65°	7525	7554	7497
70°	6911	6948	6948
75°	6638	6638	6686
80°	6246	6315	6246
85°	5034	5595	5595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.0	3.0
10°-20°	829.7	8.6
20°-30°	1251.5	13.0
30°-40°	1491.1	15.5
40°-50°	1470.1	15.3
50°-60°	1123.5	11.7
60°-70°	695.3	7.2
70°-80°	394.9	4.1
80°-90°	121.8	1.3
90°-100°	146.7	1.5
100°-110°	385.7	4.0
110°-120°	400.0	4.2
120°-130°	320.8	3.3
130°-140°	251.7	2.6
140°-150°	193.2	2.0
150°-160°	139.2	1.4
160°-170°	85.1	0.9
170°-180°	28.8	0.3
0°-30°	2371.2	24.7
0°-40°	3862.3	40.2
0°-60°	6455.9	67.1
0°-90°	7667.8	79.7
90°-120°	932.4	9.7
90°-150°	1698.2	17.7
90°-180°	1951.0	20.3
0°-180°	9619.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3067	3067	3067	3067	3067	
5°	3082	3049	3059	3048	3043	292
15°	2966	2935	2948	2937	2932	837
25°	2750	2716	2731	2702	2700	1265
35°	2422	2394	2401	2369	2367	1512
45°	1960	1934	1926	1891	1886	1501
55°	1284	1263	1255	1233	1228	1150
65°	689	684	692	687	687	698
75°	372	372	372	375	375	393
85°	95	100	106	106	106	111
90°	2	6	15	8	8	5
95°	19	76	253	130	89	22
105°	70	105	426	647	604	74
115°	124	150	342	682	778	122
125°	172	192	311	525	620	152
135°	205	225	301	424	480	158
145°	237	252	297	362	390	149
155°	268	276	297	326	336	123
165°	290	293	297	309	313	82
175°	301	301	299	303	303	29
180°	301	301	301	301	301	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3066.6	3066.6	3066.6	3066.6	3066.6
2.5°	3085.6	3058.8	3066.6	3060.0	3045.5
5°	3082.5	3048.9	3058.7	3048.0	3042.8
7.5°	3058.7	3025.6	3035.5	3024.8	3021.7
10°	3037.6	3006.6	3016.4	3005.8	3000.6
12.5°	3014.3	2981.3	2993.2	2980.4	2975.2
15°	2966.2	2935.3	2947.8	2937.1	2931.9
17.5°	2913.4	2880.4	2892.8	2880.5	2873.8
20°	2871.2	2840.2	2852.7	2834.1	2831.5
22.5°	2824.7	2793.7	2806.2	2781.3	2780.8
25°	2749.7	2716.1	2731.2	2702.1	2699.5
27.5°	2660.4	2629.4	2641.9	2612.2	2609.1
30°	2599.1	2568.1	2580.6	2548.8	2543.6
32.5°	2529.4	2500.4	2510.9	2479.1	2476.0
35°	2422.1	2393.7	2401.0	2369.2	2366.7
37.5°	2300.1	2274.3	2278.4	2243.5	2240.9
40°	2213.5	2187.6	2189.7	2152.7	2150.1
42.5°	2118.4	2092.5	2090.4	2053.3	2050.8
45°	1959.9	1934.1	1925.6	1891.1	1885.9
47.5°	1779.2	1753.4	1737.5	1709.4	1705.8
50°	1648.2	1622.4	1608.6	1584.6	1576.9
52.5°	1506.6	1480.8	1469.1	1447.3	1439.5
55°	1283.7	1263.0	1254.6	1233.4	1228.2
57.5°	1071.9	1057.9	1055.5	1034.8	1032.8
60°	943.0	935.2	935.0	916.6	916.6
62.5°	833.1	827.4	831.5	819.3	817.2
65°	689.4	684.2	692.0	686.8	686.8
67.5°	575.8	575.8	580.6	578.5	578.5
70°	512.4	512.4	515.1	515.1	515.1
72.5°	455.4	453.3	460.1	460.1	458.0
75°	372.4	372.4	372.4	375.1	375.1
77.5°	290.0	290.5	292.7	292.1	290.0
80°	235.1	237.7	237.7	235.1	235.1
82.5°	180.1	182.7	182.8	182.2	180.1
85°	95.1	100.3	105.7	105.7	105.7
87.5°	27.9	36.9	45.3	43.8	41.7
90°	1.9	5.7	15.4	7.7	7.7
92.5°	8.1	39.1	86.5	38.3	24.7
95°	19.3	75.9	252.8	130.3	88.8
97.5°	33.6	83.4	378.2	300.8	221.5
100°	44.4	89.7	416.8	422.4	328.1
102.5°	53.6	95.9	427.6	526.2	445.4
105°	69.5	105.3	426.5	647.4	604.0
107.5°	85.7	118.9	402.2	710.4	721.0
110°	96.5	126.7	382.1	726.6	771.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.3	136.0	363.6	716.4	785.8
115°	123.5	149.9	341.6	681.5	777.7
117.5°	139.3	163.5	326.5	633.1	739.9
120°	148.6	171.2	320.3	600.6	704.4
122.5°	157.9	180.5	315.7	568.1	670.4
125°	171.8	192.5	310.7	525.1	619.5
127.5°	182.9	204.1	306.5	490.4	570.1
130°	189.1	211.8	304.9	468.7	542.3
132.5°	195.3	217.9	303.4	450.0	516.0
135°	204.6	225.3	301.0	423.9	480.5
137.5°	214.2	234.6	300.7	404.4	450.8
140°	221.9	240.8	299.1	388.9	432.3
142.5°	228.1	245.5	299.1	377.9	415.3
145°	237.4	252.5	297.2	361.5	389.8
147.5°	246.6	261.3	297.2	347.9	371.3
150°	252.8	266.0	297.2	340.1	358.9
152.5°	259.0	269.2	297.2	333.8	348.1
155°	268.2	275.8	297.2	326.4	335.8
157.5°	275.2	282.4	297.2	319.7	326.5
160°	279.8	285.5	297.2	316.6	320.3
162.5°	284.5	288.6	297.2	313.5	317.3
165°	289.5	293.2	297.2	308.9	312.6
167.5°	294.1	296.0	299.1	306.9	308.4
170°	297.2	299.1	299.1	306.8	306.8
172.5°	298.7	299.1	299.1	305.3	303.8
175°	301.0	301.0	299.1	303.0	303.0
177.5°	301.0	301.0	299.5	302.6	301.0
180°	301.0	301.0	301.0	301.0	301.0

(END OF REPORT)