

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: P564603

Luminaire Tested: **SQ4-PW1-025U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564603
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-025U-125D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

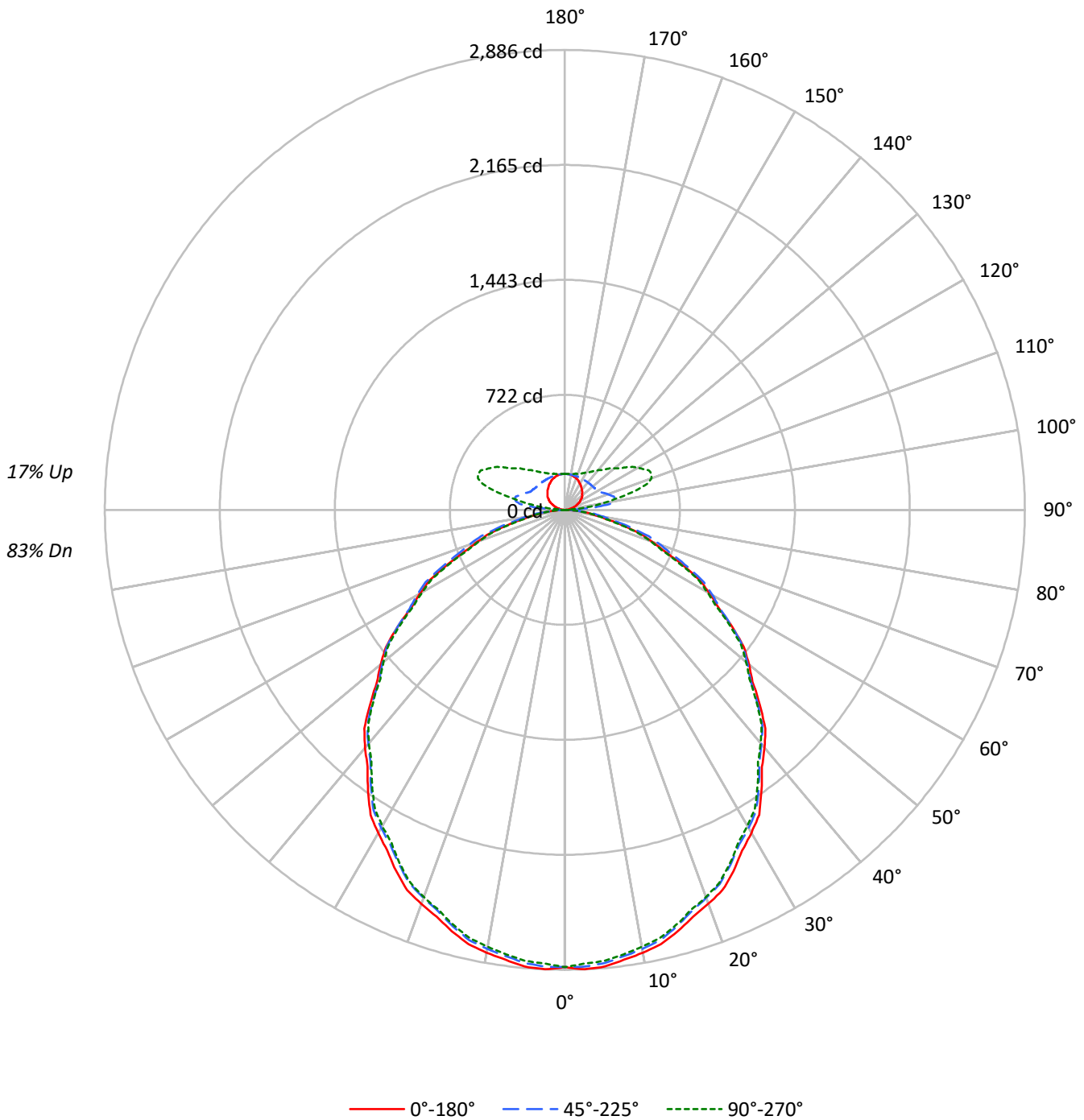
Lumens per Lamp: N/A
Luminaire Lumens: 8765.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	50	30	10	0	
RCR																						
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83	83	83	83	
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71	71	71	71	
2	96	88	82	77	92	85	79	74	79	74	70	73	69	66	68	65	62	59	59	59	59	
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50	50	50	50	
4	81	69	61	54	77	67	59	53	62	56	51	58	53	48	54	50	46	43	43	43	43	
5	74	62	53	47	71	60	52	46	56	49	44	52	46	42	49	44	40	38	38	38	38	
6	68	56	47	41	65	54	46	40	50	44	39	47	41	37	44	39	35	33	33	33	33	
7	63	51	42	36	61	49	41	36	46	39	34	43	37	33	40	35	31	29	29	29	29	
8	59	46	38	32	57	45	37	32	42	35	31	40	34	29	37	32	28	26	26	26	26	
9	55	42	34	29	53	41	34	29	39	32	28	36	31	27	34	29	26	24	24	24	24	
10	52	39	31	26	50	38	31	26	36	29	25	34	28	24	32	27	23	21	21	21	21	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17648	17648	17648
5°	17763	17623	17544
10°	17621	17479	17384
15°	17434	17241	17176
20°	17226	16961	16928
25°	16986	16677	16625
30°	16627	16375	16267
35°	16154	15926	15831
40°	15650	15407	15346
45°	15042	14843	14778
50°	14418	14297	14200
55°	13744	13744	13528
60°	12906	13155	12688
65°	11811	12400	11517
70°	10411	11411	10139
75°	8893	10214	8650
80°	6896	8597	6985
85°	4460	6599	5886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.2	3.1
10°-20°	762.8	8.7
20°-30°	1131.5	12.9
30°-40°	1324.0	15.1
40°-50°	1318.1	15.0
50°-60°	1138.2	13.0
60°-70°	819.3	9.3
70°-80°	429.7	4.9
80°-90°	107.7	1.2
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	2.2
140°-150°	144.9	1.7
150°-160°	104.4	1.2
160°-170°	63.9	0.7
170°-180°	21.6	0.2
0°-30°	2164.6	24.7
0°-40°	3488.6	39.8
0°-60°	5944.9	67.8
0°-90°	7301.6	83.3
90°-120°	699.3	8.0
90°-150°	1273.6	14.5
90°-180°	1463.0	16.7
0°-180°	8765.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2869	2869	2869	2869	2869	
5°	2877	2845	2854	2846	2842	272
15°	2738	2703	2708	2702	2697	772
25°	2503	2461	2457	2442	2450	1151
35°	2151	2122	2121	2101	2108	1345
45°	1729	1714	1706	1701	1699	1334
55°	1282	1279	1282	1264	1262	1144
65°	812	836	852	818	791	804
75°	374	409	430	401	364	401
85°	63	83	94	88	83	83
90°	1	4	12	6	6	3
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°	2869.3	2869.3	2869.3	2869.3	2869.3
2.5°	2885.5	2861.8	2869.3	2863.0	2849.1
5°	2876.9	2844.8	2854.2	2846.5	2841.5
7.5°	2847.6	2817.9	2824.8	2816.7	2813.7
10°	2821.3	2791.6	2798.6	2788.3	2783.4
12.5°	2791.0	2759.3	2766.2	2756.0	2753.1
15°	2737.9	2703.3	2707.5	2702.4	2697.4
17.5°	2676.2	2641.1	2641.8	2633.7	2632.7
20°	2631.7	2594.6	2591.3	2581.3	2586.2
22.5°	2583.2	2544.1	2540.7	2526.7	2533.6
25°	2502.8	2460.8	2457.3	2442.3	2449.7
27.5°	2409.7	2368.2	2368.3	2347.2	2355.1
30°	2341.0	2301.4	2305.6	2280.5	2290.4
32.5°	2268.2	2232.6	2234.8	2209.7	2219.6
35°	2151.4	2121.7	2121.0	2101.0	2108.4
37.5°	2032.1	2005.8	2001.7	1990.1	1992.1
40°	1949.1	1926.9	1918.8	1911.2	1911.2
42.5°	1862.2	1841.9	1833.9	1828.2	1826.3
45°	1729.2	1714.4	1706.4	1701.3	1698.9
47.5°	1597.7	1583.9	1577.0	1573.4	1570.9
50°	1506.7	1496.8	1494.1	1486.4	1484.0
52.5°	1415.7	1409.8	1407.1	1397.5	1395.0
55°	1281.7	1279.3	1281.7	1264.0	1261.5
57.5°	1142.2	1146.1	1154.3	1130.4	1124.5
60°	1049.1	1059.0	1069.4	1041.3	1031.4
62.5°	954.1	969.9	984.4	952.3	938.4
65°	811.5	836.2	852.0	818.5	791.3
67.5°	674.0	704.6	723.5	687.4	656.8
70°	578.9	613.5	634.5	598.4	563.8
72.5°	496.0	534.6	551.6	517.5	482.9
75°	374.2	408.8	429.8	401.1	364.0
77.5°	265.4	298.1	315.5	290.5	259.9
80°	194.7	229.3	242.7	221.9	197.2
82.5°	138.0	166.7	176.0	163.4	146.6
85°	63.2	83.0	93.5	88.4	83.4
87.5°	16.5	30.9	40.7	39.6	41.6
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)