

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: P563927

Luminaire Tested: **SQ4-PR1-025U-125D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563927
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

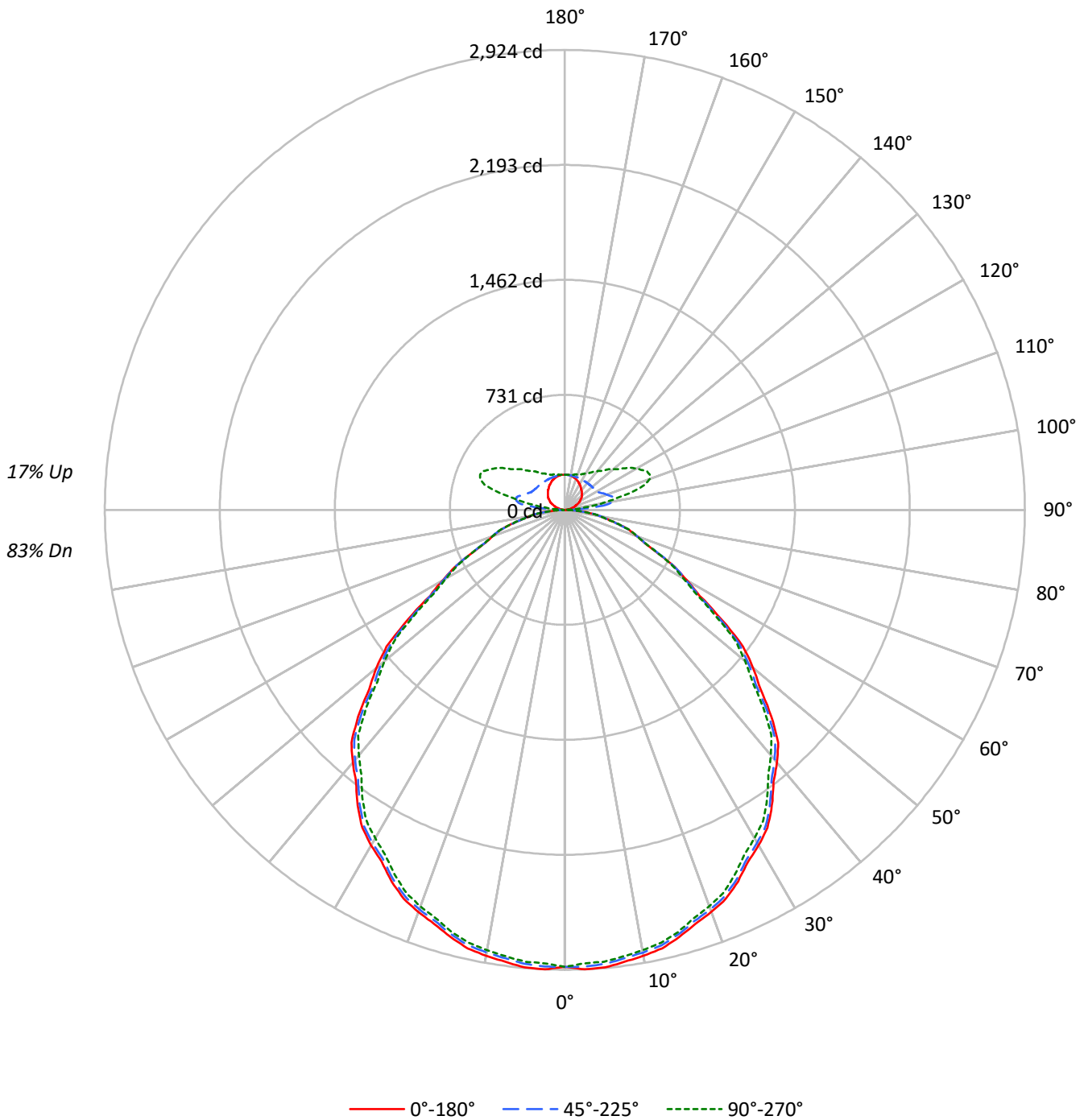
Lumens per Lamp: N/A
Luminaire Lumens: 8714.3 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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°	17873	17873	17873
5°	18034	17895	17802
10°	17977	17852	17758
15°	17898	17786	17691
20°	17808	17693	17562
25°	17683	17564	17360
30°	17492	17367	17119
35°	17233	17083	16839
40°	16841	16660	16358
45°	16154	15871	15544
50°	14945	14585	14298
55°	13044	12749	12480
60°	10991	10899	10684
65°	9507	9543	9470
70°	8733	8778	8778
75°	8387	8387	8446
80°	7892	7980	7892
85°	6359	7064	7064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	3.2
10°-20°	786.2	9.0
20°-30°	1185.8	13.6
30°-40°	1412.9	16.2
40°-50°	1393.0	16.0
50°-60°	1064.6	12.2
60°-70°	658.8	7.6
70°-80°	374.2	4.3
80°-90°	115.0	1.3
90°-100°	108.9	1.3
100°-110°	286.4	3.3
110°-120°	297.0	3.4
120°-130°	238.2	2.7
130°-140°	186.9	2.1
140°-150°	143.5	1.6
150°-160°	103.3	1.2
160°-170°	63.2	0.7
170°-180°	21.4	0.2
0°-30°	2246.8	25.8
0°-40°	3659.7	42.0
0°-60°	6117.4	70.2
0°-90°	7265.4	83.4
90°-120°	692.3	7.9
90°-150°	1261.0	14.5
90°-180°	1449.0	16.6
0°-180°	8714.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2906	2906	2906	2906	2906	
5°	2921	2889	2898	2888	2883	277
15°	2811	2781	2793	2783	2778	793
25°	2606	2574	2588	2560	2558	1199
35°	2295	2268	2275	2245	2243	1432
45°	1857	1833	1825	1792	1787	1423
55°	1216	1197	1189	1169	1164	1090
65°	653	648	656	651	651	662
75°	353	353	353	355	355	373
85°	90	95	100	100	100	105
90°	1	4	12	6	6	5
95°	14	56	188	97	66	16
105°	52	78	317	481	448	55
115°	92	111	254	506	578	91
125°	128	143	231	390	460	113
135°	152	167	224	315	357	118
145°	176	188	221	268	290	110
155°	199	205	221	242	249	92
165°	215	218	221	229	232	61
175°	224	224	222	225	225	21
180°	224	224	224	224	224	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2905.8	2905.8	2905.8	2905.8	2905.8
2.5°	2923.8	2898.4	2905.8	2899.5	2885.8
5°	2920.8	2889.0	2898.3	2888.2	2883.3
7.5°	2898.3	2867.0	2876.3	2866.2	2863.3
10°	2878.3	2848.9	2858.3	2848.1	2843.3
12.5°	2856.3	2824.9	2836.2	2824.1	2819.2
15°	2810.7	2781.3	2793.2	2783.1	2778.2
17.5°	2760.7	2729.3	2741.1	2729.5	2723.1
20°	2720.6	2691.2	2703.1	2685.5	2683.1
22.5°	2676.6	2647.2	2659.0	2635.5	2635.0
25°	2605.5	2573.7	2588.0	2560.4	2557.9
27.5°	2520.9	2491.5	2503.4	2475.3	2472.3
30°	2462.8	2433.4	2445.3	2415.2	2410.3
32.5°	2396.7	2369.3	2379.2	2349.1	2346.2
35°	2295.1	2268.2	2275.1	2245.0	2242.6
37.5°	2179.5	2155.0	2159.0	2125.9	2123.4
40°	2097.4	2072.9	2074.9	2039.8	2037.3
42.5°	2007.3	1982.8	1980.8	1945.7	1943.2
45°	1857.1	1832.7	1824.6	1791.9	1787.0
47.5°	1685.9	1661.5	1646.4	1619.8	1616.3
50°	1561.8	1537.3	1524.2	1501.6	1494.2
52.5°	1427.6	1403.2	1392.1	1371.4	1364.1
55°	1216.4	1196.8	1188.9	1168.7	1163.8
57.5°	1015.7	1002.4	1000.1	980.6	978.6
60°	893.5	886.2	886.0	868.5	868.5
62.5°	789.4	784.0	787.9	776.3	774.4
65°	653.2	648.4	655.7	650.7	650.7
67.5°	545.6	545.6	550.1	548.1	548.1
70°	485.6	485.6	488.1	488.1	488.1
72.5°	431.5	429.5	436.0	436.0	434.0
75°	352.9	352.9	352.9	355.4	355.4
77.5°	274.8	275.3	277.3	276.8	274.8
80°	222.8	225.2	225.3	222.8	222.8
82.5°	170.7	173.1	173.2	172.7	170.7
85°	90.1	95.0	100.1	100.1	100.1
87.5°	26.3	34.7	42.3	41.1	39.2
90°	1.4	4.2	11.5	5.7	5.7
92.5°	6.0	29.0	64.2	28.4	18.3
95°	14.3	56.4	187.7	96.7	65.9
97.5°	24.9	61.9	280.9	223.3	164.5
100°	33.0	66.6	309.5	313.7	243.6
102.5°	39.8	71.2	317.5	390.7	330.7
105°	51.6	78.2	316.7	480.7	448.5
107.5°	63.6	88.3	298.6	527.5	535.3
110°	71.6	94.1	283.7	539.5	573.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	79.7	101.0	270.0	531.9	583.5
115°	91.7	111.3	253.6	506.0	577.5
117.5°	103.5	121.4	242.5	470.1	549.4
120°	110.3	127.1	237.9	446.0	523.0
122.5°	117.2	134.0	234.4	421.9	497.8
125°	127.5	142.9	230.7	389.9	460.0
127.5°	135.8	151.5	227.5	364.2	423.3
130°	140.4	157.2	226.4	348.0	402.7
132.5°	145.0	161.8	225.3	334.1	383.2
135°	151.9	167.3	223.5	314.8	356.8
137.5°	159.1	174.2	223.3	300.3	334.7
140°	164.8	178.8	222.1	288.8	321.0
142.5°	169.4	182.3	222.1	280.6	308.4
145°	176.3	187.5	220.7	268.4	289.5
147.5°	183.1	194.1	220.7	258.3	275.7
150°	187.7	197.5	220.7	252.5	266.5
152.5°	192.3	199.9	220.7	247.9	258.5
155°	199.2	204.8	220.7	242.3	249.3
157.5°	204.3	209.7	220.7	237.4	242.5
160°	207.8	212.0	220.7	235.1	237.9
162.5°	211.2	214.3	220.7	232.8	235.6
165°	214.9	217.7	220.7	229.3	232.1
167.5°	218.4	219.8	222.1	227.9	229.0
170°	220.7	222.1	222.1	227.8	227.8
172.5°	221.8	222.1	222.1	226.7	225.5
175°	223.5	223.5	222.1	225.0	225.0
177.5°	223.5	223.5	222.4	224.7	223.5
180°	223.5	223.5	223.5	223.5	223.5

(END OF REPORT)