

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: P563255

Luminaire Tested: **SQ4-PP3-025U-125D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563255
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-125D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

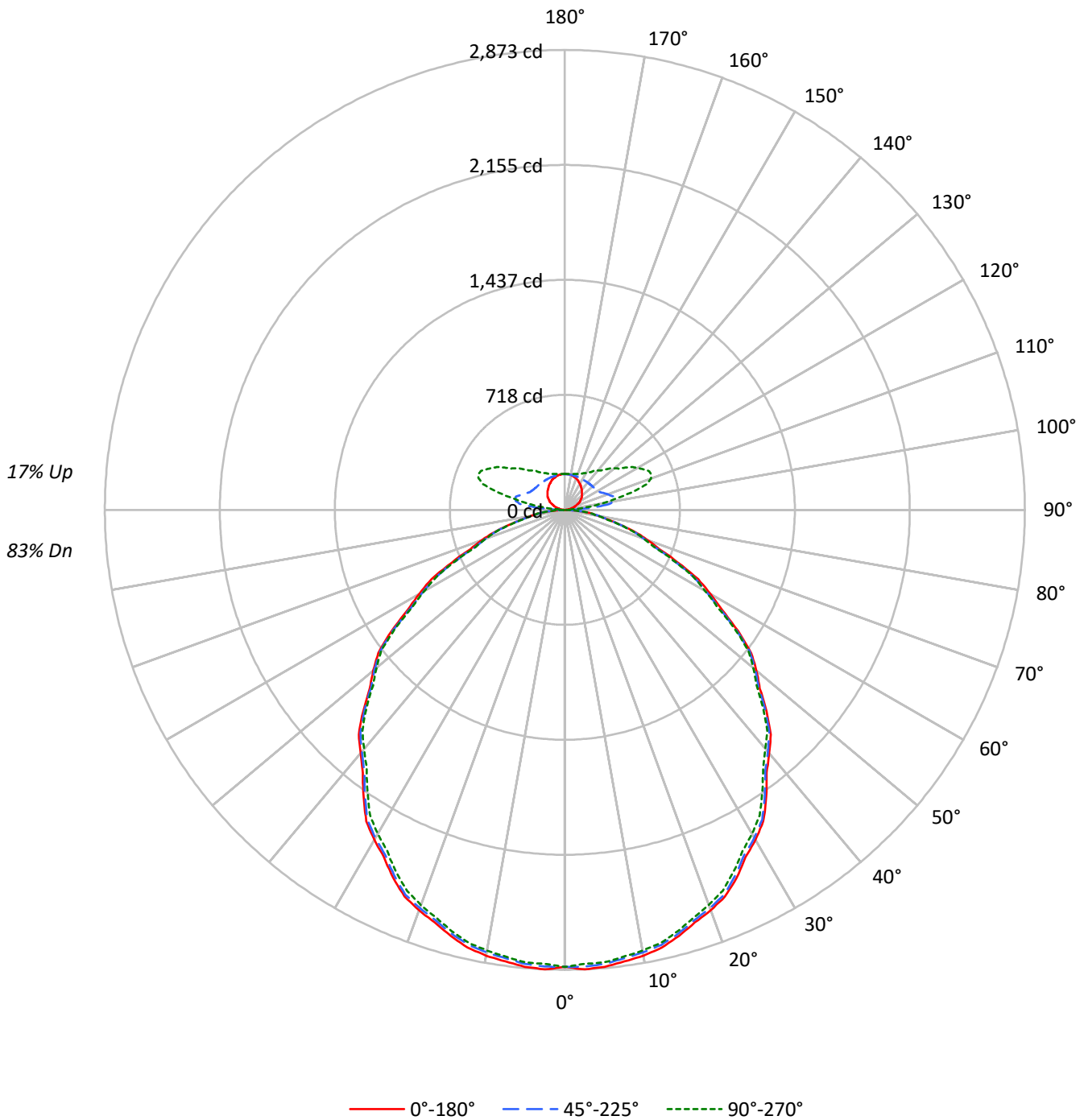
Lumens per Lamp: N/A
Luminaire Lumens: 8757.5 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	111	111	111	111	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	96	89	82	77	92	86	80	75	79	75	71	74	70	67	68	66	63	60
3	88	78	71	65	84	76	69	63	70	65	60	65	61	57	61	57	54	51
4	81	70	61	55	77	67	60	54	63	56	51	58	53	49	55	50	47	44
5	74	62	54	48	71	60	52	47	56	50	45	53	47	43	49	45	41	38
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	45	40	36	34
7	64	51	43	37	61	49	42	36	46	40	35	44	38	33	41	36	32	30
8	59	46	38	33	57	45	37	32	42	36	31	40	34	30	38	33	29	27
9	55	43	35	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17561	17561	17561
5°	17690	17582	17520
10°	17660	17535	17457
15°	17543	17448	17352
20°	17427	17329	17198
25°	17220	17101	16931
30°	16901	16813	16599
35°	16459	16347	16140
40°	15933	15832	15652
45°	15497	15389	15236
50°	14941	14845	14702
55°	14168	13980	13873
60°	12898	12528	12466
65°	11362	10889	10853
70°	9810	9405	9405
75°	8444	8325	8206
80°	7446	7534	7357
85°	5829	6359	6359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	3.1
10°-20°	770.9	8.8
20°-30°	1154.7	13.2
30°-40°	1354.4	15.5
40°-50°	1358.6	15.5
50°-60°	1159.0	13.2
60°-70°	755.9	8.6
70°-80°	379.2	4.3
80°-90°	106.1	1.2
90°-100°	108.9	1.2
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°	2195.5	25.1
0°-40°	3549.9	40.5
0°-60°	6067.5	69.3
0°-90°	7308.7	83.5
90°-120°	692.3	7.9
90°-150°	1261.0	14.4
90°-180°	1449.0	16.5
0°-180°	8757.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2855	2855	2855	2855	2855	
5°	2865	2838	2848	2838	2838	272
15°	2755	2728	2740	2730	2725	777
25°	2537	2508	2520	2497	2495	1167
35°	2192	2170	2177	2152	2150	1369
45°	1782	1769	1769	1752	1752	1372
55°	1321	1316	1304	1296	1294	1174
65°	781	766	748	743	746	779
75°	355	355	350	348	345	385
85°	83	90	90	90	90	97
90°	1	4	12	6	6	4
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°	2855.1	2855.1	2855.1	2855.1	2855.1
2.5°	2873.1	2849.6	2855.1	2850.8	2839.1
5°	2865.1	2838.2	2847.6	2837.6	2837.6
7.5°	2845.6	2816.2	2825.6	2815.5	2815.1
10°	2827.6	2798.2	2807.6	2797.5	2795.0
12.5°	2801.5	2772.2	2783.5	2771.5	2771.0
15°	2755.0	2728.1	2740.0	2729.9	2725.0
17.5°	2702.5	2673.1	2687.4	2673.4	2671.4
20°	2662.4	2633.1	2647.4	2627.4	2627.4
22.5°	2614.4	2585.0	2601.4	2575.3	2575.3
25°	2537.3	2507.9	2519.8	2497.2	2494.8
27.5°	2445.7	2416.9	2429.2	2403.7	2403.2
30°	2379.7	2352.7	2367.2	2339.6	2337.1
32.5°	2307.6	2282.6	2293.1	2265.5	2263.1
35°	2192.0	2170.0	2177.0	2151.9	2149.5
37.5°	2070.4	2047.9	2055.9	2034.3	2033.3
40°	1984.3	1969.6	1971.8	1954.2	1949.3
42.5°	1904.2	1887.6	1889.7	1872.2	1871.2
45°	1781.6	1769.4	1769.1	1751.6	1751.6
47.5°	1651.5	1642.2	1639.5	1625.0	1624.5
50°	1561.4	1554.1	1551.4	1538.8	1536.4
52.5°	1467.3	1463.9	1455.3	1444.8	1444.3
55°	1321.2	1316.3	1303.7	1296.1	1293.7
57.5°	1162.6	1152.8	1138.5	1127.6	1129.5
60°	1048.5	1038.7	1018.4	1013.4	1013.4
62.5°	938.4	926.6	906.3	899.4	903.3
65°	780.7	766.0	748.2	743.2	745.7
67.5°	637.6	624.4	605.1	605.0	603.0
70°	545.5	538.2	523.0	523.0	523.0
72.5°	463.4	460.0	448.9	448.9	446.9
75°	355.3	355.3	350.3	347.8	345.3
77.5°	266.2	267.2	264.7	262.1	257.7
80°	210.2	215.1	212.7	210.1	207.7
82.5°	158.1	163.0	162.6	158.1	157.6
85°	82.6	89.9	90.1	90.1	90.1
87.5°	22.3	30.7	34.3	33.2	35.2
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)