

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: P563205

Luminaire Tested: **SQ4-PP3-025U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563205
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-075D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

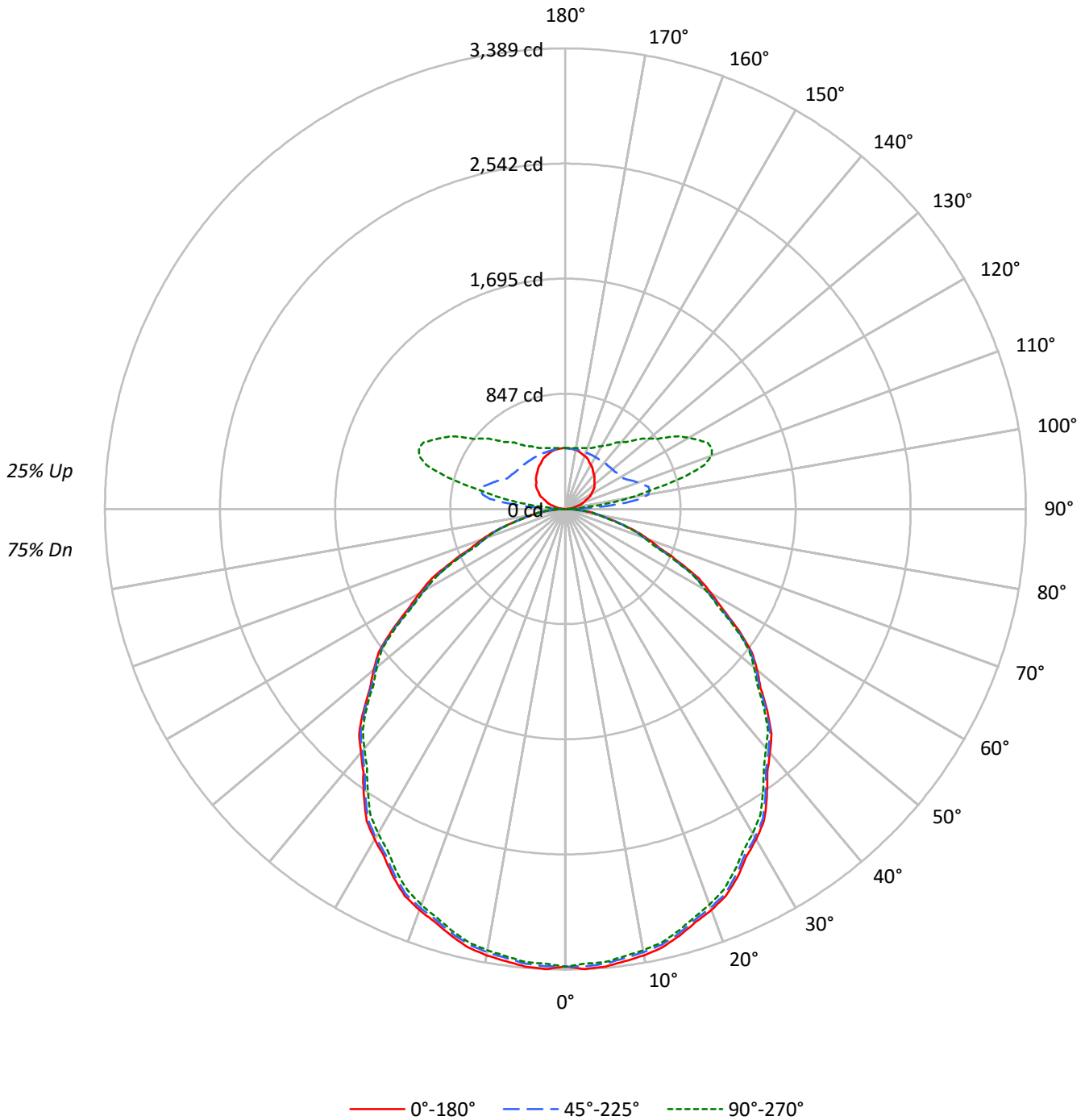
Lumens per Lamp: N/A
Luminaire Lumens: 11519.5 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 94.8
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	50	30	10	0		
RCR																										
0	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75					75			
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64					64			
2	95	87	81	76	90	83	77	73	76	71	67	69	65	62	62	60	57	54					54			
3	87	77	69	63	82	73	67	61	67	61	57	61	57	53	55	52	49	46					46			
4	79	68	60	54	75	65	58	52	60	54	49	54	49	45	50	46	42	39					39			
5	73	61	53	46	69	58	51	45	54	47	42	49	44	40	45	40	37	34					34			
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	41	36	33	30					30			
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	33	29	27					27			
8	58	45	37	32	55	44	36	31	40	34	29	37	32	28	34	29	26	24					24			
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	32	27	24	22					22			
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21	20					20			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10357	10357	10357
5°	10433	10369	10333
10°	10415	10342	10295
15°	10346	10290	10234
20°	10278	10220	10143
25°	10156	10085	9985
30°	9968	9915	9790
35°	9707	9640	9518
40°	9396	9337	9230
45°	9140	9076	8986
50°	8812	8755	8670
55°	8356	8245	8182
60°	7607	7389	7353
65°	6701	6422	6400
70°	5785	5547	5547
75°	4980	4910	4840
80°	4390	4444	4339
85°	3437	3751	3751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.4	2.8
10°-20°	909.3	7.9
20°-30°	1361.9	11.8
30°-40°	1597.5	13.9
40°-50°	1602.5	13.9
50°-60°	1367.1	11.9
60°-70°	891.6	7.7
70°-80°	447.3	3.9
80°-90°	126.2	1.1
90°-100°	217.9	1.9
100°-110°	572.8	5.0
110°-120°	594.0	5.2
120°-130°	476.5	4.1
130°-140°	373.8	3.2
140°-150°	286.9	2.5
150°-160°	206.7	1.8
160°-170°	126.4	1.1
170°-180°	42.7	0.4
0°-30°	2589.7	22.5
0°-40°	4187.1	36.3
0°-60°	7156.7	62.1
0°-90°	8621.7	74.8
90°-120°	1384.7	12.0
90°-150°	2521.9	21.9
90°-180°	2898.0	25.2
0°-180°	11519.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3368	3368	3368	3368	3368	
5°	3380	3348	3359	3347	3347	321
15°	3250	3218	3232	3220	3214	917
25°	2993	2958	2972	2946	2943	1376
35°	2586	2560	2568	2538	2535	1615
45°	2102	2087	2087	2066	2066	1618
55°	1558	1553	1538	1529	1526	1385
65°	921	904	882	877	880	919
75°	419	419	413	410	407	455
85°	97	106	106	106	106	114
90°	3	8	23	12	12	6
95°	29	113	375	194	132	32
105°	103	156	633	962	897	109
115°	183	223	507	1012	1155	181
125°	255	286	461	780	920	226
135°	304	335	447	630	714	235
145°	352	375	441	537	579	221
155°	398	410	441	485	499	183
165°	430	436	441	459	464	121
175°	447	447	444	450	450	42
180°	447	447	447	447	447	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3367.6	3367.6	3367.6	3367.6	3367.6
2.5°	3388.9	3361.2	3367.6	3362.6	3348.8
5°	3379.5	3347.7	3358.8	3347.0	3347.0
7.5°	3356.4	3321.8	3332.8	3321.0	3320.4
10°	3335.2	3300.5	3311.6	3299.7	3296.8
12.5°	3304.5	3269.9	3283.2	3269.1	3268.5
15°	3249.6	3217.8	3231.9	3219.9	3214.2
17.5°	3187.6	3153.0	3169.9	3153.3	3151.0
20°	3140.4	3105.8	3122.7	3099.1	3099.1
22.5°	3083.7	3049.1	3068.4	3037.7	3037.7
25°	2992.8	2958.2	2972.1	2945.5	2942.6
27.5°	2884.8	2850.7	2865.3	2835.2	2834.6
30°	2806.9	2775.1	2792.1	2759.6	2756.7
32.5°	2721.9	2692.4	2704.7	2672.2	2669.3
35°	2585.5	2559.5	2567.8	2538.2	2535.3
37.5°	2442.1	2415.5	2424.9	2399.5	2398.4
40°	2340.5	2323.2	2325.8	2305.0	2299.2
42.5°	2246.1	2226.5	2229.0	2208.3	2207.1
45°	2101.5	2087.0	2086.7	2066.0	2066.0
47.5°	1948.0	1937.0	1933.8	1916.7	1916.1
50°	1841.7	1833.1	1829.9	1815.1	1812.2
52.5°	1730.8	1726.7	1716.6	1704.2	1703.6
55°	1558.4	1552.6	1537.7	1528.8	1525.9
57.5°	1371.3	1359.7	1342.9	1330.0	1332.3
60°	1236.7	1225.1	1201.3	1195.4	1195.4
62.5°	1106.8	1093.0	1069.0	1060.9	1065.5
65°	920.9	903.5	882.5	876.7	879.5
67.5°	752.0	736.5	713.7	713.6	711.3
70°	643.4	634.8	616.9	616.9	616.9
72.5°	546.6	542.6	529.5	529.4	527.1
75°	419.1	419.1	413.2	410.2	407.3
77.5°	314.0	315.2	312.3	309.2	304.0
80°	247.9	253.7	250.9	247.9	245.0
82.5°	186.5	192.3	191.8	186.5	185.9
85°	97.4	106.1	106.3	106.3	106.3
87.5°	26.5	36.9	42.4	40.1	42.4
90°	2.9	8.5	22.9	11.5	11.5
92.5°	12.0	58.0	128.4	56.9	36.7
95°	28.7	112.7	375.4	193.5	131.8
97.5°	49.9	123.8	561.7	446.7	329.0
100°	65.9	133.2	619.0	627.3	487.2
102.5°	79.7	142.4	635.1	781.4	661.4
105°	103.2	156.4	633.4	961.5	897.0
107.5°	127.2	176.6	597.2	1055.0	1070.7
110°	143.3	188.1	567.4	1079.1	1146.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	159.3	201.9	539.9	1063.9	1167.0
115°	183.4	222.6	507.3	1012.0	1154.9
117.5°	206.9	242.8	484.9	940.2	1098.8
120°	220.7	254.3	475.7	891.9	1046.0
122.5°	234.4	268.1	468.9	843.7	995.6
125°	255.1	285.9	461.4	779.8	919.9
127.5°	271.7	303.1	455.1	728.3	846.6
130°	280.9	314.5	452.8	696.0	805.3
132.5°	290.0	323.7	450.5	668.3	766.3
135°	303.8	334.6	447.1	629.5	713.6
137.5°	318.1	348.4	446.5	600.5	669.5
140°	329.6	357.6	444.2	577.5	642.0
142.5°	338.7	364.5	444.2	561.3	616.7
145°	352.5	374.9	441.3	536.9	578.9
147.5°	366.3	388.1	441.3	516.6	551.4
150°	375.4	395.0	441.3	505.0	533.1
152.5°	384.6	399.7	441.3	495.7	517.0
155°	398.4	409.6	441.3	484.6	498.7
157.5°	408.7	419.3	441.3	474.8	484.9
160°	415.5	424.0	441.3	470.1	475.7
162.5°	422.4	428.6	441.3	465.5	471.1
165°	429.9	435.5	441.3	458.7	464.3
167.5°	436.8	439.6	444.2	455.7	458.0
170°	441.3	444.1	444.2	455.7	455.7
172.5°	443.6	444.2	444.2	453.3	451.1
175°	447.1	447.1	444.2	449.9	449.9
177.5°	447.1	447.1	444.8	449.3	447.1
180°	447.1	447.1	447.1	447.1	447.1

(END OF REPORT)