

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: P563790

Luminaire Tested: **SQ4-PP3-150U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563790
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PP3-150U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

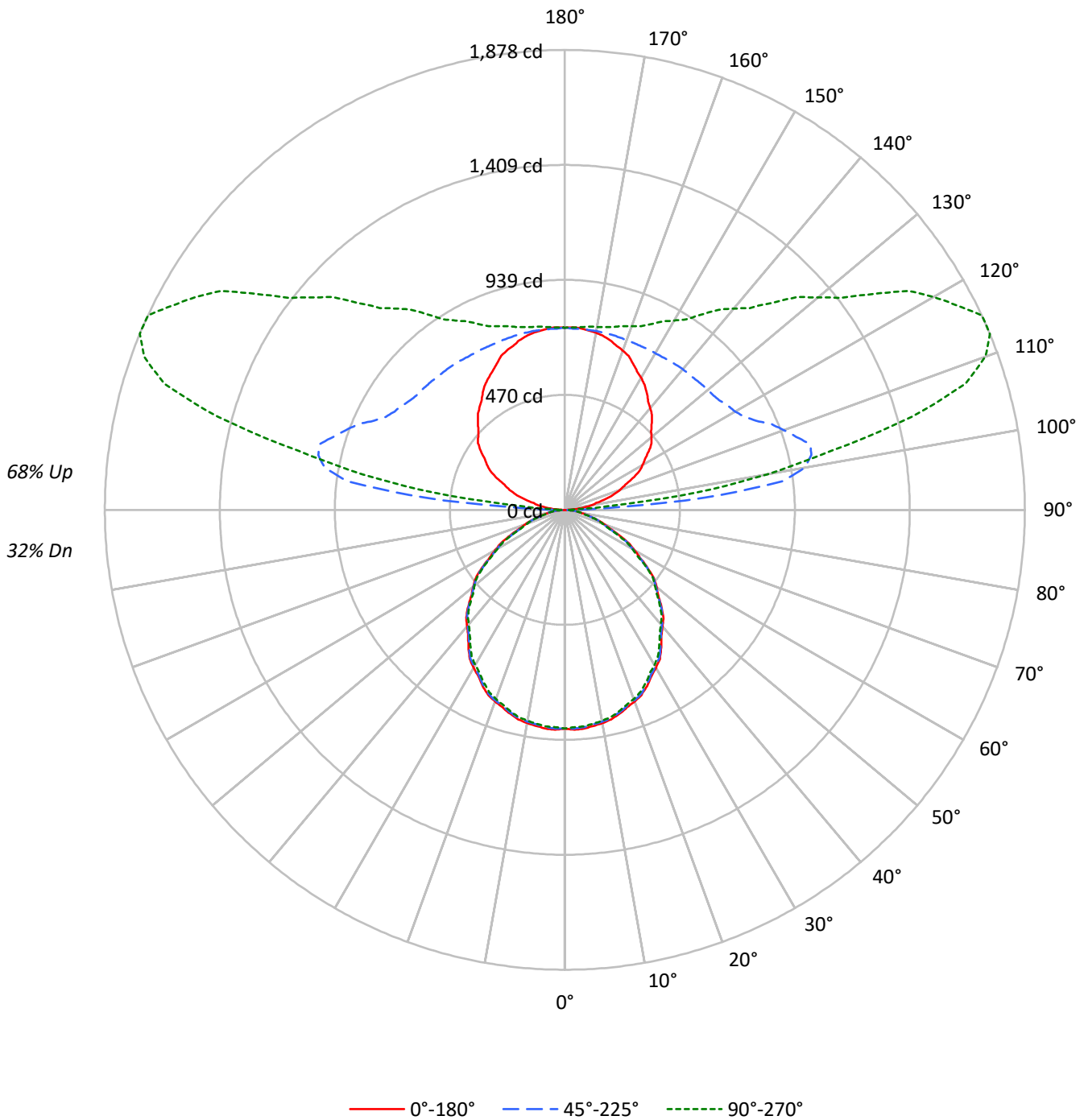
Lumens per Lamp: N/A
Luminaire Lumens: 7081.4 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 63.5
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	32				
1	94	90	86	83	84	81	78	75	65	62	60	49	48	47	35	35	34	27				
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29	23				
3	78	69	62	56	70	62	56	52	50	46	42	38	36	33	28	26	25	20				
4	71	61	53	48	64	55	49	44	44	40	36	34	31	28	25	23	21	17				
5	65	54	46	41	59	49	42	37	40	35	31	31	27	25	22	20	18	15				
6	60	49	41	35	54	44	37	32	36	31	27	28	24	21	20	18	16	13				
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	14	12				
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10				
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	13	12	9				
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	14	12	10	8				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8242	8242	8242
5°	8302	8251	8222
10°	8288	8229	8193
15°	8234	8189	8144
20°	8179	8133	8071
25°	8081	8026	7945
30°	7932	7890	7790
35°	7724	7671	7574
40°	7477	7430	7346
45°	7273	7222	7150
50°	7012	6967	6900
55°	6650	6561	6511
60°	6052	5879	5851
65°	5333	5111	5093
70°	4605	4413	4413
75°	3964	3907	3850
80°	3496	3533	3454
85°	2731	2985	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	1.2
10°-20°	241.2	3.4
20°-30°	361.3	5.1
30°-40°	423.7	6.0
40°-50°	425.1	6.0
50°-60°	362.6	5.1
60°-70°	236.5	3.3
70°-80°	118.6	1.7
80°-90°	34.4	0.5
90°-100°	345.5	4.9
100°-110°	934.2	13.2
110°-120°	982.2	13.9
120°-130°	797.8	11.3
130°-140°	625.8	8.8
140°-150°	480.3	6.8
150°-160°	345.4	4.9
160°-170°	211.0	3.0
170°-180°	71.1	1.0
0°-30°	686.9	9.7
0°-40°	1110.6	15.7
0°-60°	1898.3	26.8
0°-90°	2287.8	32.3
90°-120°	2262.0	31.9
90°-150°	4166.0	58.8
90°-180°	4794.0	67.7
0°-180°	7081.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	893	893	893	893	893	
5°	896	888	891	888	888	85
15°	862	854	857	854	853	243
25°	794	785	788	781	780	365
35°	686	679	681	673	672	428
45°	557	554	554	548	548	429
55°	413	412	408	406	405	367
65°	244	240	234	232	233	244
75°	111	111	110	109	108	121
85°	26	28	28	28	28	30
90°	2	5	10	11	10	5
95°	54	188	575	297	177	56
105°	174	268	1036	1529	1466	183
115°	306	374	860	1664	1878	302
125°	419	480	775	1307	1536	373
135°	502	561	754	1056	1195	388
145°	583	627	744	904	972	365
155°	659	684	737	810	837	304
165°	717	724	740	769	773	202
175°	744	744	741	751	749	71
180°	744	744	744	744	744	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	893.3	893.3	893.3	893.3	893.3
2.5°	898.9	891.6	893.3	891.9	888.3
5°	896.4	888.0	890.9	887.8	887.8
7.5°	890.3	881.1	884.0	880.9	880.7
10°	884.7	875.5	878.4	875.3	874.5
12.5°	876.5	867.3	870.9	867.1	867.0
15°	862.0	853.5	857.3	854.1	852.6
17.5°	845.5	836.3	840.8	836.4	835.8
20°	833.0	823.8	828.3	822.0	822.0
22.5°	818.0	808.8	813.9	805.7	805.7
25°	793.8	784.7	788.4	781.3	780.5
27.5°	765.2	756.2	760.0	752.0	751.9
30°	744.5	736.1	740.6	732.0	731.2
32.5°	722.0	714.2	717.4	708.8	708.0
35°	685.8	678.9	681.1	673.3	672.5
37.5°	647.8	640.7	643.2	636.5	636.2
40°	620.8	616.2	616.9	611.4	609.9
42.5°	595.8	590.6	591.2	585.7	585.4
45°	557.4	553.6	553.5	548.0	548.0
47.5°	516.7	513.8	512.9	508.4	508.3
50°	488.5	486.2	485.4	481.5	480.7
52.5°	459.1	458.0	455.3	452.0	451.9
55°	413.4	411.8	407.9	405.5	404.8
57.5°	363.7	360.7	356.2	352.8	353.4
60°	328.0	325.0	318.6	317.1	317.1
62.5°	293.6	289.9	283.6	281.4	282.6
65°	244.3	239.7	234.1	232.5	233.3
67.5°	199.5	195.3	189.3	189.3	188.7
70°	170.7	168.4	163.6	163.6	163.6
72.5°	145.0	143.9	140.4	140.4	139.8
75°	111.2	111.2	109.6	108.8	108.0
77.5°	83.3	83.6	82.8	82.0	80.6
80°	65.8	67.3	66.5	65.7	65.0
82.5°	49.5	51.0	50.9	49.5	49.3
85°	25.8	28.1	28.2	28.2	28.2
87.5°	7.2	10.3	12.1	12.3	12.7
90°	1.6	4.7	10.4	11.2	10.4
92.5°	22.7	82.8	163.4	70.9	51.4
95°	53.6	188.2	574.6	297.4	176.9
97.5°	86.1	215.9	895.7	741.3	544.4
100°	110.4	227.0	995.6	1038.3	839.5
102.5°	132.9	242.6	1030.8	1263.5	1114.8
105°	173.7	268.4	1036.4	1528.8	1466.2
107.5°	211.4	297.8	991.1	1694.3	1715.1
110°	240.9	319.1	950.8	1738.7	1827.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	267.1	340.4	913.6	1729.8	1878.3
115°	305.7	373.8	859.5	1663.9	1878.3
117.5°	343.5	407.4	823.8	1563.3	1806.3
120°	366.5	429.1	802.7	1491.0	1739.1
122.5°	388.3	449.7	789.9	1413.6	1663.5
125°	418.6	479.6	774.7	1307.3	1535.8
127.5°	446.4	506.4	765.7	1220.6	1421.5
130°	461.8	523.6	761.9	1167.0	1348.5
132.5°	477.8	539.0	758.1	1118.6	1285.8
135°	501.8	561.3	753.9	1055.6	1194.9
137.5°	526.0	582.2	750.4	1004.4	1117.9
140°	542.6	595.0	749.1	971.5	1072.4
142.5°	558.6	607.9	746.5	941.7	1030.2
145°	583.4	627.3	743.5	903.5	972.4
147.5°	606.0	644.8	740.0	868.9	921.8
150°	622.6	657.1	738.7	850.1	892.4
152.5°	638.0	668.1	738.1	832.6	867.4
155°	658.7	684.5	737.1	810.5	837.1
157.5°	680.1	698.1	737.3	795.1	812.6
160°	692.3	707.1	737.9	785.4	797.9
162.5°	701.9	714.2	738.5	777.6	787.0
165°	717.1	724.1	740.3	769.2	773.1
167.5°	727.5	732.3	740.5	761.9	763.8
170°	733.9	736.2	741.1	758.7	758.7
172.5°	739.0	739.5	741.1	754.8	754.2
175°	744.3	743.5	741.1	750.7	749.1
177.5°	746.1	744.2	740.9	747.3	745.4
180°	743.5	743.5	743.5	743.5	743.5

(END OF REPORT)