

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: P563778

Luminaire Tested: **SQ4-PP3-150U-075D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563778
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-830-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

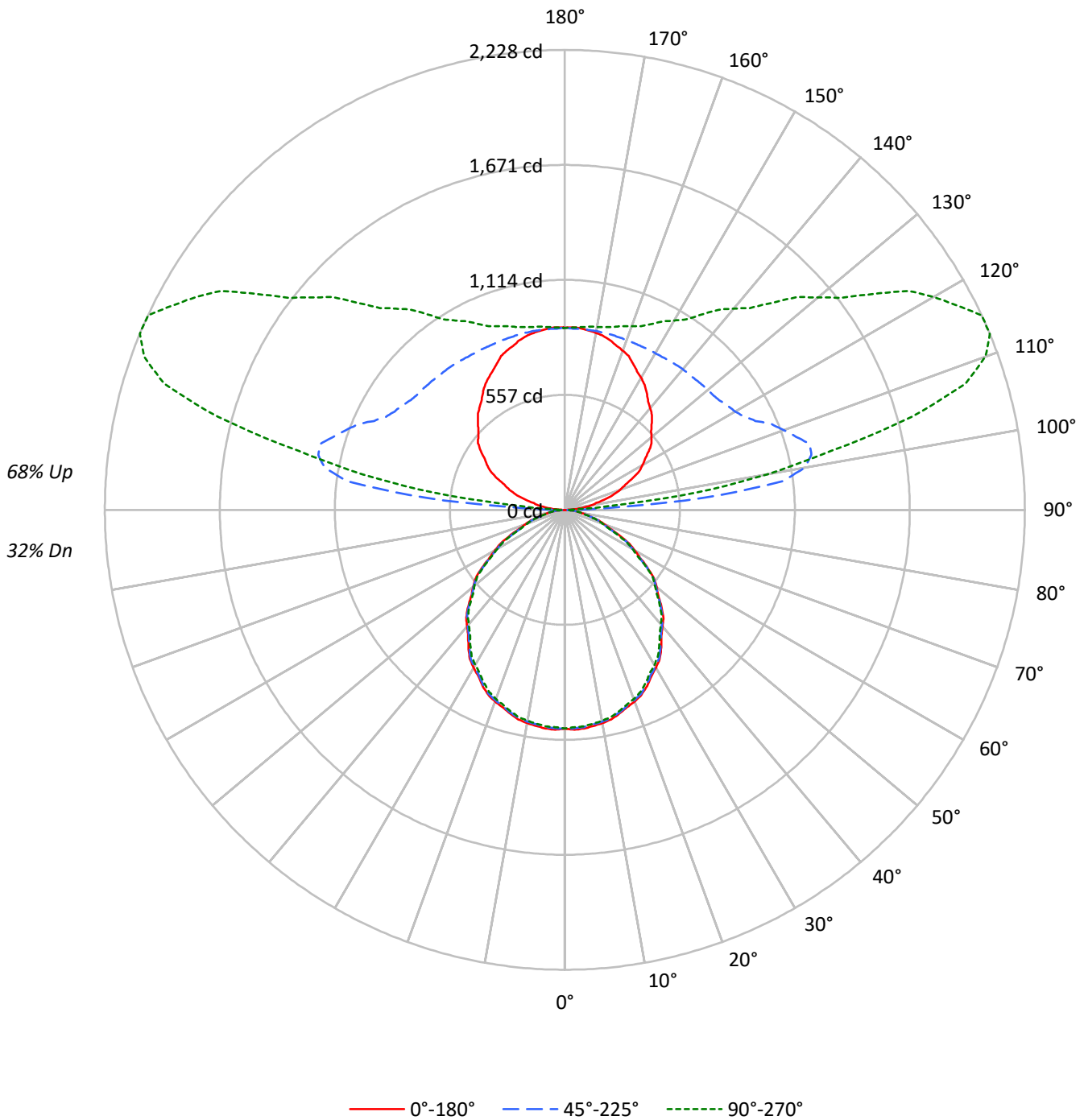
Lumens per Lamp: N/A
Luminaire Lumens: 8399.7 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	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°	9776	9776	9776
5°	9848	9787	9753
10°	9831	9761	9718
15°	9766	9712	9660
20°	9701	9646	9574
25°	9585	9519	9425
30°	9408	9359	9240
35°	9163	9099	8985
40°	8869	8814	8713
45°	8627	8566	8481
50°	8318	8263	8184
55°	7887	7782	7723
60°	7180	6975	6940
65°	6324	6062	6041
70°	5460	5236	5236
75°	4702	4634	4570
80°	4144	4192	4096
85°	3239	3536	3536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	1.2
10°-20°	286.1	3.4
20°-30°	428.5	5.1
30°-40°	502.6	6.0
40°-50°	504.2	6.0
50°-60°	430.1	5.1
60°-70°	280.5	3.3
70°-80°	140.7	1.7
80°-90°	40.8	0.5
90°-100°	409.8	4.9
100°-110°	1108.2	13.2
110°-120°	1165.1	13.9
120°-130°	946.4	11.3
130°-140°	742.3	8.8
140°-150°	569.7	6.8
150°-160°	409.7	4.9
160°-170°	250.3	3.0
170°-180°	84.4	1.0
0°-30°	814.8	9.7
0°-40°	1317.4	15.7
0°-60°	2251.7	26.8
0°-90°	2713.7	32.3
90°-120°	2683.1	31.9
90°-150°	4941.5	58.8
90°-180°	5686.0	67.7
0°-180°	8399.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1063	1053	1057	1053	1053	101
15°	1022	1012	1017	1013	1011	288
25°	942	931	935	927	926	433
35°	814	805	808	799	798	508
45°	661	657	656	650	650	509
55°	490	488	484	481	480	436
65°	290	284	278	276	277	289
75°	132	132	130	129	128	143
85°	31	33	33	33	33	36
90°	2	6	12	13	12	5
95°	64	223	682	353	210	67
105°	206	318	1229	1813	1739	217
115°	363	443	1020	1974	2228	358
125°	496	569	919	1551	1822	443
135°	595	666	894	1252	1417	460
145°	692	744	882	1072	1153	433
155°	781	812	874	961	993	360
165°	851	859	878	912	917	240
175°	883	882	879	890	888	84
180°	882	882	882	882	882	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.6	1059.6	1059.6	1059.6	1059.6
2.5°	1066.3	1057.5	1059.6	1058.0	1053.6
5°	1063.3	1053.3	1056.8	1053.1	1053.1
7.5°	1056.0	1045.1	1048.6	1044.9	1044.7
10°	1049.4	1038.5	1041.9	1038.2	1037.3
12.5°	1039.7	1028.8	1033.0	1028.5	1028.4
15°	1022.4	1012.4	1016.8	1013.1	1011.3
17.5°	1002.9	992.0	997.3	992.1	991.4
20°	988.1	977.2	982.5	975.1	975.1
22.5°	970.2	959.3	965.4	955.7	955.7
25°	941.6	930.7	935.1	926.8	925.8
27.5°	907.6	896.9	901.5	892.0	891.9
30°	883.1	873.1	878.5	868.2	867.3
32.5°	856.4	847.1	851.0	840.8	839.9
35°	813.5	805.3	807.9	798.6	797.7
37.5°	768.3	760.0	763.0	755.0	754.6
40°	736.4	731.0	731.8	725.2	723.4
42.5°	706.7	700.5	701.3	694.8	694.4
45°	661.2	656.6	656.5	650.0	650.0
47.5°	612.9	609.4	608.4	603.0	602.9
50°	579.5	576.7	575.7	571.1	570.2
52.5°	544.5	543.3	540.1	536.2	536.0
55°	490.3	488.5	483.8	481.0	480.1
57.5°	431.4	427.8	422.5	418.5	419.2
60°	389.1	385.5	378.0	376.1	376.1
62.5°	348.2	343.9	336.3	333.8	335.2
65°	289.7	284.3	277.7	275.8	276.7
67.5°	236.6	231.7	224.5	224.5	223.8
70°	202.4	199.7	194.1	194.1	194.1
72.5°	172.0	170.7	166.6	166.6	165.9
75°	131.9	131.9	130.0	129.1	128.2
77.5°	98.8	99.2	98.2	97.3	95.6
80°	78.0	79.8	78.9	78.0	77.1
82.5°	58.7	60.5	60.4	58.7	58.5
85°	30.6	33.4	33.4	33.4	33.4
87.5°	8.6	12.2	14.4	14.6	15.1
90°	1.9	5.6	12.3	13.3	12.3
92.5°	27.0	98.2	193.8	84.2	60.9
95°	63.6	223.3	681.6	352.7	209.8
97.5°	102.1	256.0	1062.5	879.3	645.7
100°	131.0	269.3	1180.9	1231.6	995.8
102.5°	157.6	287.7	1222.7	1498.7	1322.4
105°	206.0	318.3	1229.3	1813.4	1739.1
107.5°	250.8	353.3	1175.6	2009.7	2034.4
110°	285.7	378.6	1127.8	2062.4	2167.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	316.9	403.8	1083.7	2051.8	2228.0
115°	362.6	443.4	1019.6	1973.7	2228.0
117.5°	407.4	483.2	977.2	1854.3	2142.6
120°	434.8	509.0	952.2	1768.6	2062.8
122.5°	460.6	533.4	937.0	1676.8	1973.2
125°	496.5	568.9	918.9	1550.7	1821.7
127.5°	529.5	600.6	908.3	1447.8	1686.2
130°	547.7	621.1	903.7	1384.2	1599.6
132.5°	566.7	639.3	899.2	1326.9	1525.2
135°	595.2	665.8	894.2	1252.1	1417.3
137.5°	623.9	690.5	890.1	1191.4	1326.0
140°	643.6	705.8	888.5	1152.3	1272.1
142.5°	662.6	721.1	885.5	1117.1	1221.9
145°	692.0	744.0	881.9	1071.7	1153.4
147.5°	718.8	764.9	877.7	1030.7	1093.4
150°	738.6	779.4	876.2	1008.4	1058.5
152.5°	756.8	792.4	875.4	987.6	1028.9
155°	781.3	811.9	874.3	961.4	993.0
157.5°	806.7	828.1	874.5	943.1	963.9
160°	821.1	838.8	875.3	931.6	946.5
162.5°	832.5	847.2	876.0	922.4	933.5
165°	850.6	858.9	878.1	912.4	917.0
167.5°	862.9	868.7	878.3	903.8	906.0
170°	870.5	873.3	879.1	899.9	899.9
172.5°	876.6	877.1	879.1	895.4	894.6
175°	882.9	881.9	879.1	890.4	888.5
177.5°	884.9	882.7	878.9	886.4	884.2
180°	881.9	881.9	881.9	881.9	881.9

(END OF REPORT)