

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: P564450

Luminaire Tested: **SQ4-PR1-150U-075D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564450
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PR1-150U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

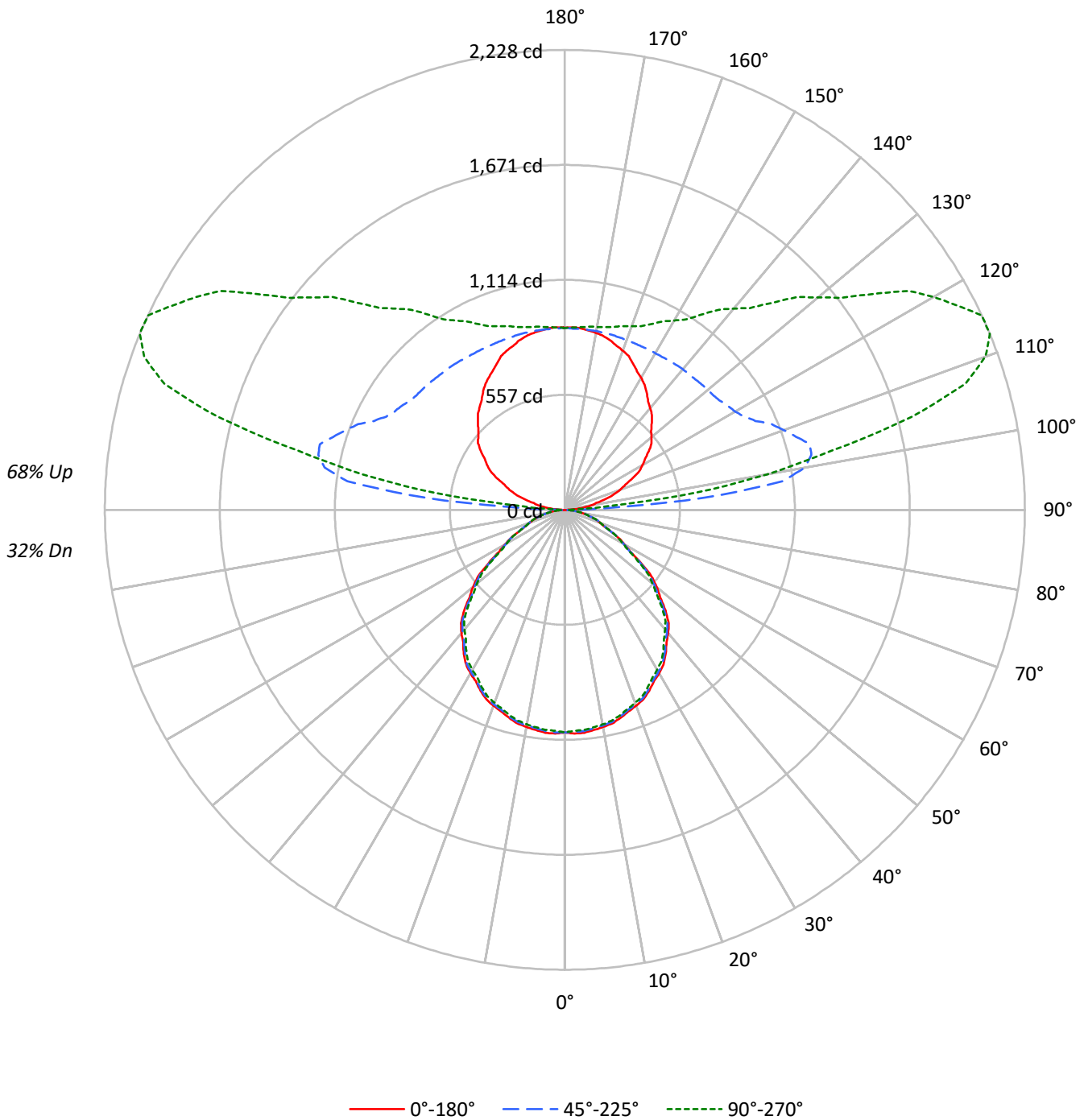
Lumens per Lamp: N/A
Luminaire Lumens: 8383.7 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	73	73	73	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	44	41	39	31	30	29	23
3	78	69	62	57	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	72	61	54	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	55	47	41	59	49	43	38	40	35	31	31	28	25	23	20	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	29	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9950	9950	9950
5°	10039	9962	9910
10°	10007	9937	9886
15°	9963	9901	9848
20°	9914	9850	9776
25°	9843	9777	9664
30°	9737	9668	9530
35°	9594	9509	9373
40°	9375	9274	9106
45°	8993	8835	8653
50°	8319	8120	7959
55°	7261	7097	6947
60°	6119	6067	5947
65°	5292	5314	5272
70°	4861	4885	4885
75°	4670	4670	4702
80°	4394	4442	4394
85°	3536	3938	3938



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	1.2
10°-20°	291.8	3.5
20°-30°	440.1	5.2
30°-40°	524.4	6.3
40°-50°	517.0	6.2
50°-60°	395.1	4.7
60°-70°	244.5	2.9
70°-80°	138.9	1.7
80°-90°	44.1	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	8.9
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°	833.8	9.9
0°-40°	1358.2	16.2
0°-60°	2270.2	27.1
0°-90°	2697.7	32.2
90°-120°	2683.1	32.0
90°-150°	4941.5	58.9
90°-180°	5686.0	67.8
0°-180°	8383.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1084	1072	1076	1072	1070	103
15°	1043	1032	1037	1033	1031	294
25°	967	955	960	950	949	445
35°	852	842	844	833	832	532
45°	689	680	677	665	663	528
55°	451	444	441	434	432	404
65°	242	241	243	242	242	246
75°	131	131	131	132	132	138
85°	33	35	37	37	37	39
90°	2	6	12	13	12	6
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°	1078.4	1078.4	1078.4	1078.4	1078.4
2.5°	1085.1	1075.6	1078.4	1076.0	1071.0
5°	1084.0	1072.2	1075.6	1071.8	1070.0
7.5°	1075.6	1064.0	1067.4	1063.7	1062.6
10°	1068.2	1057.3	1060.7	1057.0	1055.2
12.5°	1060.0	1048.4	1052.6	1048.1	1046.3
15°	1043.1	1032.2	1036.6	1032.8	1031.0
17.5°	1024.5	1012.9	1017.3	1012.9	1010.6
20°	1009.7	998.8	1003.2	996.6	995.7
22.5°	993.3	982.4	986.8	978.1	977.9
25°	966.9	955.1	960.4	950.2	949.3
27.5°	935.5	924.6	929.0	918.6	917.5
30°	914.0	903.1	907.5	896.3	894.5
32.5°	889.5	879.3	883.0	871.8	870.7
35°	851.8	841.8	844.3	833.2	832.2
37.5°	808.8	799.8	801.2	788.9	788.0
40°	778.4	769.3	770.0	757.0	756.1
42.5°	744.9	735.9	735.1	722.1	721.2
45°	689.2	680.1	677.1	665.0	663.2
47.5°	625.7	616.6	611.0	601.1	599.8
50°	579.6	570.5	565.7	557.2	554.5
52.5°	529.8	520.7	516.6	508.9	506.2
55°	451.4	444.2	441.2	433.7	431.9
57.5°	376.9	372.0	371.2	363.9	363.2
60°	331.6	328.9	328.8	322.3	322.3
62.5°	293.0	291.0	292.4	288.1	287.4
65°	242.4	240.6	243.4	241.5	241.5
67.5°	202.5	202.5	204.2	203.4	203.4
70°	180.2	180.2	181.1	181.1	181.1
72.5°	160.1	159.4	161.8	161.8	161.1
75°	131.0	131.0	131.0	131.9	131.9
77.5°	102.0	102.2	102.9	102.7	102.0
80°	82.7	83.6	83.6	82.7	82.7
82.5°	63.3	64.3	64.3	64.1	63.3
85°	33.4	35.3	37.2	37.2	37.2
87.5°	10.0	13.7	17.3	17.5	16.6
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)