

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: P564354

Luminaire Tested: **SQ4-PR1-125U-075D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564354
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PR1-125U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

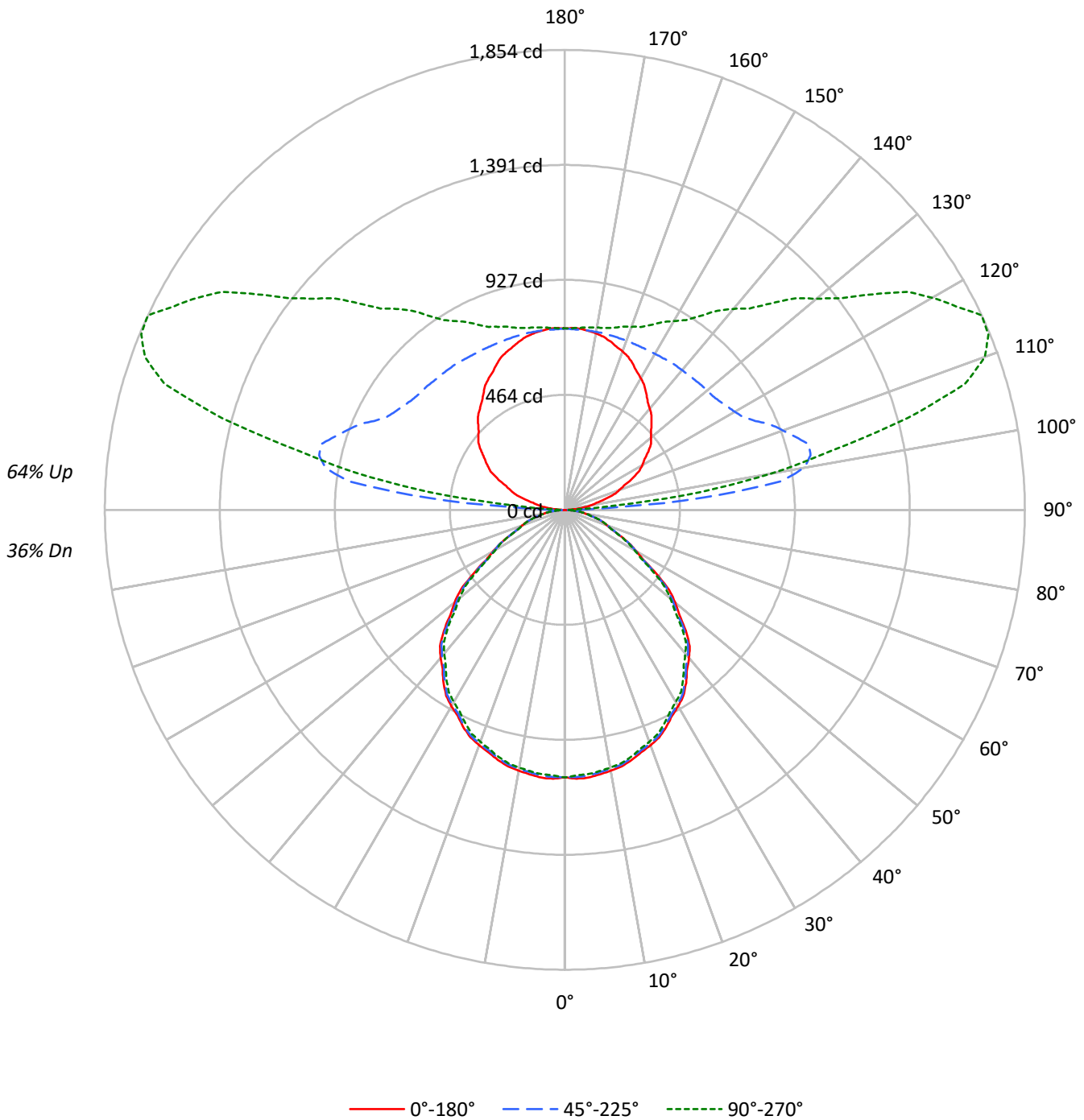
Lumens per Lamp: N/A
Luminaire Lumens: 7416.4 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26
3	79	70	63	57	71	64	58	53	52	48	44	41	38	35	31	29	27	23
4	72	62	54	49	65	56	50	45	46	41	38	36	33	30	28	25	24	19
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	22	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	17	15	13	11
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10

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	1.4
10°-20°	291.8	3.9
20°-30°	440.1	5.9
30°-40°	524.4	7.1
40°-50°	517.0	7.0
50°-60°	395.1	5.3
60°-70°	244.5	3.3
70°-80°	138.9	1.9
80°-90°	44.0	0.6
90°-100°	342.0	4.6
100°-110°	921.1	12.4
110°-120°	966.7	13.0
120°-130°	784.4	10.6
130°-140°	615.2	8.3
140°-150°	472.3	6.4
150°-160°	339.6	4.6
160°-170°	207.5	2.8
170°-180°	70.0	0.9
0°-30°	833.8	11.2
0°-40°	1358.2	18.3
0°-60°	2270.2	30.6
0°-90°	2697.6	36.4
90°-120°	2229.8	30.1
90°-150°	4101.8	55.3
90°-180°	4719.0	63.6
0°-180°	7416.4	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	11	12	12	5
95°	52	186	561	287	198	54
105°	170	265	1019	1524	1430	179
115°	301	368	848	1639	1854	296
125°	411	472	762	1287	1515	367
135°	494	552	740	1039	1176	382
145°	572	616	731	888	954	359
155°	649	673	724	797	822	299
165°	704	712	727	756	760	199
175°	732	731	728	738	737	70
180°	731	731	731	731	731	

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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	17.1	17.3	16.5
90°	1.9	5.5	11.2	12.1	12.1
92.5°	22.7	80.3	158.7	76.4	53.1
95°	52.1	186.0	560.6	286.7	198.3
97.5°	83.2	212.9	879.2	734.5	553.9
100°	107.1	223.6	980.5	1025.9	851.1
102.5°	130.2	238.7	1014.0	1244.1	1100.6
105°	170.4	265.1	1018.7	1524.1	1430.3
107.5°	208.4	292.9	975.3	1667.9	1692.1
110°	233.7	313.8	935.8	1712.6	1800.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	260.5	334.8	897.8	1702.7	1847.8
115°	300.8	368.1	848.3	1639.1	1854.0
117.5°	337.5	400.6	809.9	1537.6	1776.9
120°	361.3	422.3	790.6	1464.7	1710.6
122.5°	382.2	442.4	776.4	1390.2	1635.3
125°	410.6	471.6	761.7	1287.4	1515.0
127.5°	438.0	498.1	752.4	1196.7	1399.9
130°	454.4	514.5	748.7	1144.7	1323.2
132.5°	470.8	530.2	744.9	1099.0	1262.9
135°	494.5	551.8	740.3	1038.6	1176.1
137.5°	517.0	572.0	737.9	987.4	1100.3
140°	532.6	585.4	735.6	955.8	1057.8
142.5°	549.0	598.2	734.1	926.4	1012.4
145°	571.7	616.4	731.0	888.0	953.5
147.5°	596.3	635.1	727.8	855.6	907.1
150°	612.7	646.4	726.3	835.3	878.1
152.5°	627.6	656.9	725.6	818.7	853.5
155°	649.0	672.7	724.4	796.7	822.2
157.5°	667.8	686.2	724.6	781.3	798.4
160°	679.8	695.2	725.4	772.2	785.0
162.5°	690.2	702.7	726.1	764.7	773.8
165°	704.0	712.2	727.2	756.2	759.8
167.5°	715.1	719.9	728.2	749.6	751.1
170°	722.6	724.4	728.2	745.9	745.9
172.5°	727.1	727.4	728.9	742.1	742.1
175°	731.9	731.0	728.2	738.4	736.6
177.5°	733.9	732.5	728.7	734.7	733.2
180°	731.0	731.0	731.0	731.0	731.0

(END OF REPORT)