

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: P563356

Luminaire Tested: **SQ4-PP3-050U-125D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563356
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-125D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

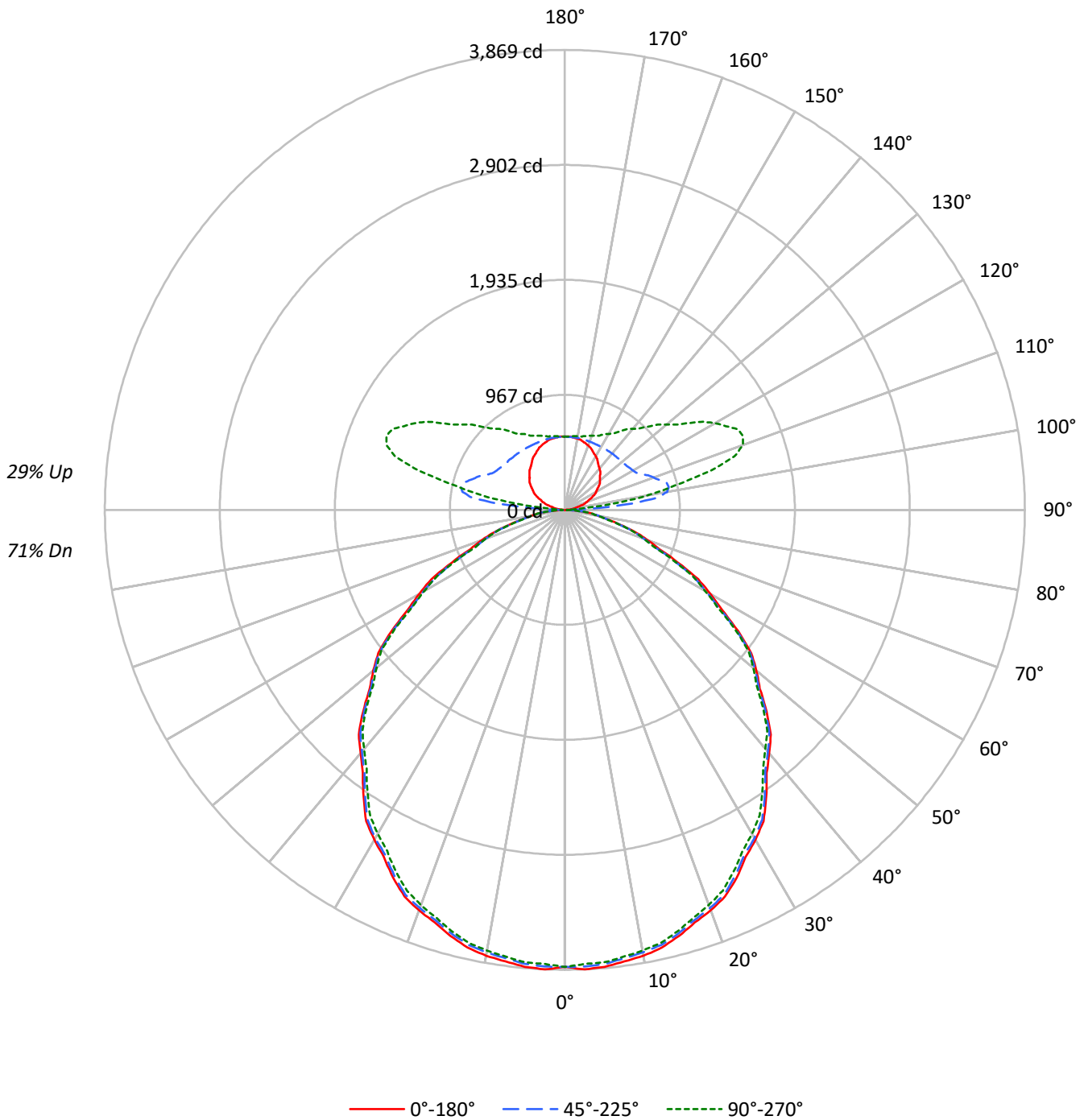
Lumens per Lamp: N/A
Luminaire Lumens: 13867.6 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 114.8
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	0
RCR																		
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	60
2	94	86	80	75	89	82	76	72	74	69	66	66	63	60	59	57	55	51
3	86	76	69	63	81	72	66	60	65	60	56	59	55	51	53	50	47	43
4	79	68	59	53	74	64	57	51	58	52	48	53	48	44	47	44	40	37
5	72	60	52	46	68	58	50	44	52	46	41	47	42	38	43	39	35	33
6	67	54	46	40	63	52	44	39	47	41	36	43	38	34	39	34	31	29
7	62	49	41	35	58	47	39	34	43	37	32	39	34	30	35	31	28	25
8	57	45	37	31	54	43	35	30	39	33	29	36	31	27	33	28	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	26	22	20
10	50	38	30	25	48	36	29	25	33	27	23	31	25	22	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17738	17738	17738
5°	17868	17759	17696
10°	17838	17712	17633
15°	17720	17623	17527
20°	17602	17503	17371
25°	17393	17273	17101
30°	17071	16982	16766
35°	16625	16511	16302
40°	16093	15991	15809
45°	15653	15543	15390
50°	15091	14995	14849
55°	14310	14121	14013
60°	13027	12655	12592
65°	11477	10998	10961
70°	9908	9499	9499
75°	8529	8409	8290
80°	7521	7608	7430
85°	5886	6420	6420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.6	2.6
10°-20°	1038.2	7.5
20°-30°	1555.0	11.2
30°-40°	1824.0	13.2
40°-50°	1829.7	13.2
50°-60°	1560.9	11.3
60°-70°	1018.0	7.3
70°-80°	510.7	3.7
80°-90°	143.7	1.0
90°-100°	295.8	2.1
100°-110°	803.7	5.8
110°-120°	826.3	6.0
120°-130°	660.7	4.8
130°-140°	519.1	3.7
140°-150°	398.0	2.9
150°-160°	286.2	2.1
160°-170°	175.1	1.3
170°-180°	59.0	0.4
0°-30°	2956.8	21.3
0°-40°	4780.8	34.5
0°-60°	8171.3	58.9
0°-90°	9843.7	71.0
90°-120°	1925.8	13.9
90°-150°	3503.7	25.3
90°-180°	4024.0	29.0
0°-180°	13867.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3845	3845	3845	3845	3845	
5°	3859	3822	3835	3822	3822	366
15°	3710	3674	3690	3676	3670	1047
25°	3417	3378	3394	3363	3360	1571
35°	2952	2922	2932	2898	2895	1844
45°	2399	2383	2382	2359	2359	1847
55°	1779	1773	1756	1746	1742	1581
65°	1051	1032	1008	1001	1004	1049
75°	478	478	472	468	465	519
85°	111	121	121	121	121	131
90°	2	8	14	18	18	7
95°	44	162	515	224	151	46
105°	143	222	884	1346	1266	152
115°	254	308	707	1407	1603	250
125°	349	397	640	1078	1272	311
135°	420	467	622	878	991	325
145°	486	520	614	746	803	305
155°	549	568	610	670	690	253
165°	594	602	612	638	640	168
175°	616	618	614	622	620	59
180°	616	616	616	616	616	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3845.1	3845.1	3845.1	3845.1	3845.1
2.5°	3869.4	3837.7	3845.1	3839.3	3823.5
5°	3858.6	3822.3	3835.0	3821.5	3821.5
7.5°	3832.3	3792.8	3805.3	3791.8	3791.2
10°	3808.0	3768.5	3781.1	3767.5	3764.2
12.5°	3773.0	3733.4	3748.7	3732.5	3731.9
15°	3710.3	3674.1	3690.1	3676.5	3669.9
17.5°	3639.5	3600.0	3619.3	3600.4	3597.7
20°	3585.6	3546.1	3565.4	3538.4	3538.4
22.5°	3520.9	3481.4	3503.4	3468.3	3468.3
25°	3417.1	3377.6	3393.5	3363.1	3359.8
27.5°	3293.8	3254.9	3271.5	3237.1	3236.5
30°	3204.8	3168.6	3188.0	3150.8	3147.5
32.5°	3107.8	3074.1	3088.2	3051.1	3047.8
35°	2952.1	2922.4	2931.8	2898.1	2894.8
37.5°	2788.3	2758.0	2768.7	2739.7	2738.4
40°	2672.4	2652.6	2655.5	2631.8	2625.2
42.5°	2564.5	2542.1	2545.0	2521.4	2520.0
45°	2399.4	2382.9	2382.5	2359.0	2359.0
47.5°	2224.2	2211.6	2208.0	2188.4	2187.8
50°	2102.8	2093.0	2089.4	2072.4	2069.1
52.5°	1976.1	1971.5	1960.0	1945.8	1945.1
55°	1779.3	1772.7	1755.7	1745.6	1742.3
57.5°	1565.7	1552.5	1533.3	1518.6	1521.2
60°	1412.0	1398.8	1371.6	1364.8	1364.8
62.5°	1263.7	1247.9	1220.6	1211.3	1216.5
65°	1051.4	1031.7	1007.6	1000.9	1004.2
67.5°	858.7	840.9	814.9	814.8	812.2
70°	734.6	724.8	704.3	704.3	704.3
72.5°	624.1	619.5	604.6	604.5	601.9
75°	478.5	478.5	471.8	468.3	465.1
77.5°	358.6	359.9	356.5	353.0	347.1
80°	283.1	289.7	286.4	283.0	279.7
82.5°	213.0	219.6	219.0	213.0	212.3
85°	111.2	121.1	121.3	121.3	121.3
87.5°	30.1	41.8	45.9	46.8	49.4
90°	2.0	7.8	13.9	17.8	17.8
92.5°	17.8	81.0	140.7	60.4	51.1
95°	43.6	161.8	515.2	224.2	150.6
97.5°	72.1	178.7	789.9	614.5	431.6
100°	91.2	190.0	873.9	885.9	715.4
102.5°	110.2	201.2	896.1	1095.6	945.2
105°	142.7	222.1	883.8	1345.7	1266.3
107.5°	176.4	246.5	832.7	1474.8	1496.9
110°	200.1	264.1	794.6	1500.3	1595.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.8	281.6	756.6	1479.2	1622.2
115°	253.6	307.9	707.4	1407.4	1603.1
117.5°	284.6	336.5	676.1	1305.8	1526.3
120°	305.2	355.5	661.9	1237.6	1456.5
122.5°	322.6	373.0	652.4	1169.2	1380.4
125°	348.8	397.2	640.1	1078.4	1272.2
127.5°	372.2	420.2	633.3	1009.7	1175.9
130°	386.4	432.9	630.2	966.5	1115.7
132.5°	400.7	447.2	627.0	929.6	1061.8
135°	420.1	466.6	622.2	878.4	990.8
137.5°	441.1	483.4	619.9	833.2	927.8
140°	453.8	494.5	618.3	804.5	889.8
142.5°	466.5	504.1	616.7	782.0	853.3
145°	485.5	520.4	614.3	746.4	802.6
147.5°	506.9	536.7	612.3	718.4	762.5
150°	521.2	546.4	612.3	702.3	737.2
152.5°	532.3	554.4	610.7	687.9	716.6
155°	548.9	568.3	610.3	670.2	689.6
157.5°	565.2	580.3	610.3	658.2	673.0
160°	574.7	588.2	610.3	650.2	661.9
162.5°	584.2	594.6	611.9	643.8	652.4
165°	594.5	602.2	612.3	638.1	640.1
167.5°	605.2	609.1	614.3	631.4	632.9
170°	608.4	612.2	614.3	628.2	628.2
172.5°	611.5	613.9	614.3	625.0	625.0
175°	616.3	618.2	614.3	622.2	620.3
177.5°	617.9	617.9	613.1	619.4	616.3
180°	616.3	616.3	616.3	616.3	616.3

(END OF REPORT)