

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: P565134

Luminaire Tested: **SQ4-PW1-150U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565134
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

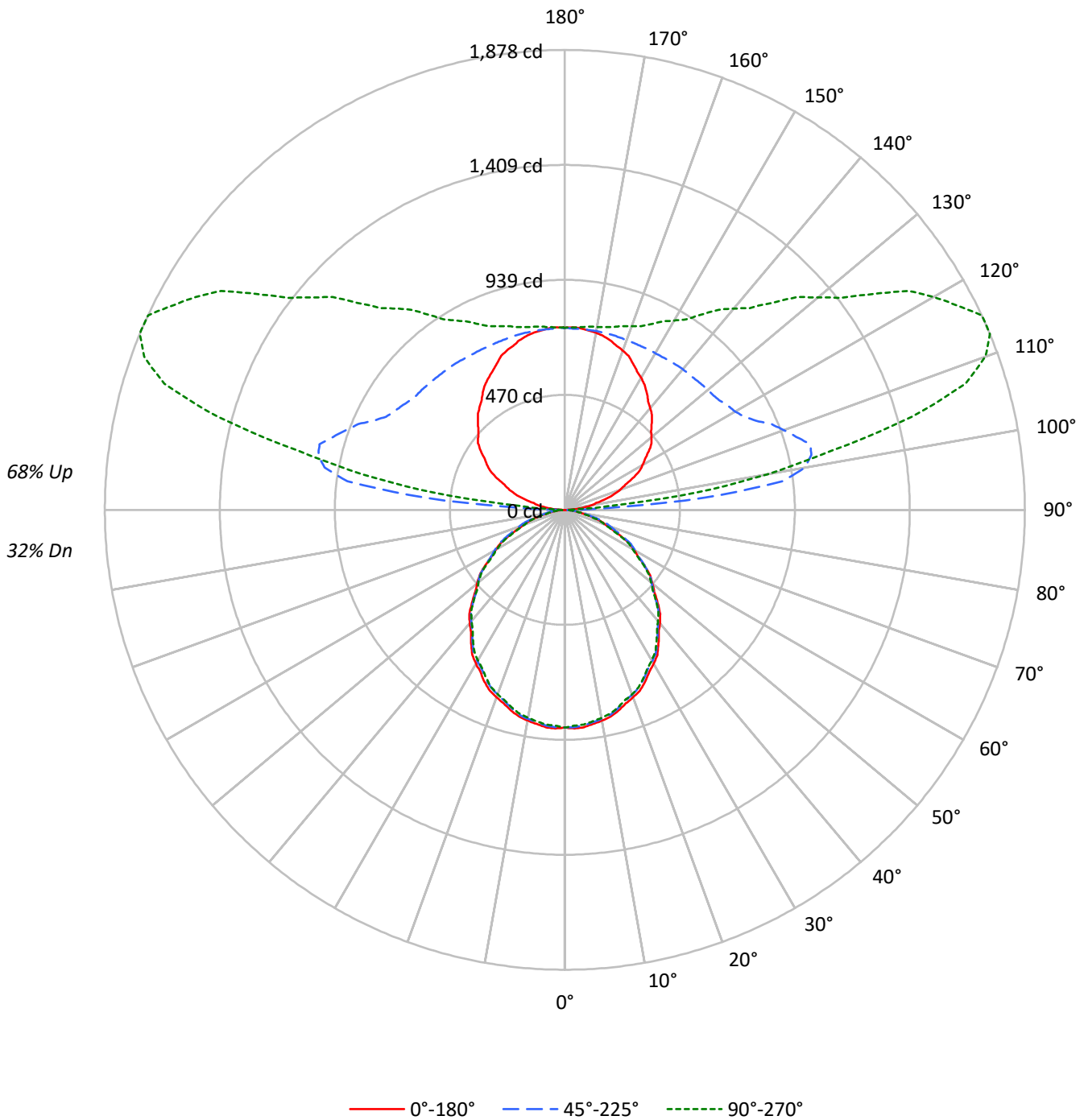
Lumens per Lamp: N/A
Luminaire Lumens: 7056.4 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	64	62	60	49	48	46	35	34	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	28	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	22	21	17
5	65	54	46	40	59	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8200	8200	8200
5°	8253	8188	8152
10°	8187	8122	8078
15°	8101	8011	7980
20°	8004	7880	7865
25°	7892	7748	7725
30°	7725	7609	7559
35°	7506	7400	7356
40°	7271	7159	7130
45°	6988	6897	6866
50°	6699	6643	6598
55°	6386	6386	6286
60°	5997	6111	5896
65°	5488	5761	5351
70°	4837	5303	4710
75°	4132	4745	4021
80°	3204	3995	3246
85°	2075	3070	2731



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	1.2
10°-20°	236.3	3.3
20°-30°	350.5	5.0
30°-40°	410.1	5.8
40°-50°	408.3	5.8
50°-60°	352.6	5.0
60°-70°	253.8	3.6
70°-80°	133.1	1.9
80°-90°	34.5	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	8.9
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°	670.5	9.5
0°-40°	1080.6	15.3
0°-60°	1841.4	26.1
0°-90°	2262.8	32.1
90°-120°	2262.0	32.1
90°-150°	4166.0	59.0
90°-180°	4794.0	67.9
0°-180°	7056.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	889	889	889	889	889	
5°	891	881	884	882	880	84
15°	848	837	839	837	836	239
25°	775	762	761	756	759	356
35°	666	657	657	651	653	417
45°	536	531	529	527	526	413
55°	397	396	397	392	391	354
65°	251	259	264	254	245	249
75°	116	127	133	124	113	124
85°	20	26	29	27	26	26
90°	2	5	10	11	10	4
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°	888.8	888.8	888.8	888.8	888.8
2.5°	893.8	886.4	888.8	886.8	882.5
5°	891.1	881.2	884.1	881.7	880.2
7.5°	882.1	872.9	875.0	872.5	871.6
10°	873.9	864.7	866.9	863.7	862.2
12.5°	864.5	854.7	856.8	853.7	852.8
15°	848.1	837.3	838.7	837.1	835.5
17.5°	829.0	818.1	818.3	815.8	815.5
20°	815.2	803.7	802.6	799.6	801.1
22.5°	800.1	788.0	787.0	782.7	784.8
25°	775.2	762.2	761.1	756.5	758.8
27.5°	746.4	733.6	733.6	727.1	729.5
30°	725.1	712.9	714.2	706.4	709.5
32.5°	702.6	691.5	692.2	684.5	687.5
35°	666.4	657.2	657.0	650.8	653.1
37.5°	629.4	621.3	620.0	616.4	617.1
40°	603.7	596.9	594.4	592.0	592.0
42.5°	576.8	570.5	568.0	566.3	565.7
45°	535.6	531.0	528.6	527.0	526.2
47.5°	494.9	490.6	488.5	487.4	486.6
50°	466.7	463.6	462.8	460.4	459.7
52.5°	438.5	436.7	435.9	432.9	432.1
55°	397.0	396.3	397.0	391.5	390.8
57.5°	353.8	355.0	357.6	350.1	348.3
60°	325.0	328.0	331.2	322.6	319.5
62.5°	295.5	300.4	304.9	295.0	290.7
65°	251.4	259.0	263.9	253.5	245.1
67.5°	208.8	218.3	224.1	212.9	203.4
70°	179.3	190.0	196.6	185.3	174.6
72.5°	153.6	165.6	170.9	160.3	149.6
75°	115.9	126.6	133.1	124.2	112.8
77.5°	82.2	92.3	97.7	90.0	80.5
80°	60.3	71.0	75.2	68.7	61.1
82.5°	42.8	51.6	54.5	50.6	45.4
85°	19.6	25.7	29.0	27.4	25.8
87.5°	5.3	10.2	14.0	14.2	14.6
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)