

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: P564462

Luminaire Tested: **SQ4-PR1-150U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564462
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-930-1D-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

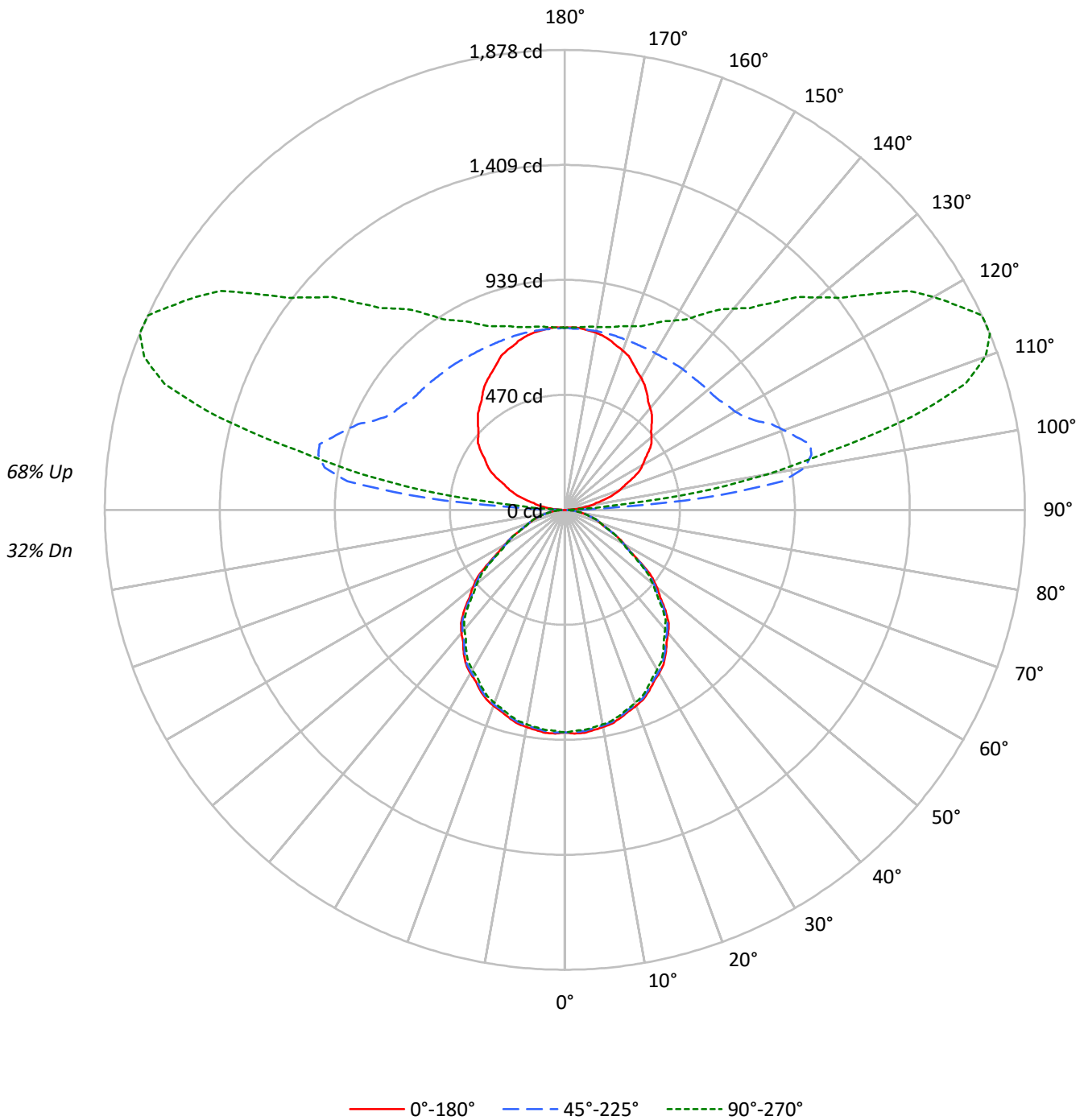
Lumens per Lamp: N/A
Luminaire Lumens: 7067.9 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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°	8388	8388	8388
5°	8463	8398	8355
10°	8436	8378	8334
15°	8400	8347	8302
20°	8357	8303	8242
25°	8299	8243	8147
30°	8209	8151	8034
35°	8088	8017	7902
40°	7903	7819	7677
45°	7581	7449	7295
50°	7013	6845	6710
55°	6122	5984	5857
60°	5159	5115	5014
65°	4462	4480	4445
70°	4098	4119	4119
75°	3935	3935	3964
80°	3703	3746	3703
85°	2985	3313	3313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	1.2
10°-20°	246.0	3.5
20°-30°	371.0	5.2
30°-40°	442.1	6.3
40°-50°	435.8	6.2
50°-60°	333.1	4.7
60°-70°	206.1	2.9
70°-80°	117.1	1.7
80°-90°	37.2	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°	703.0	9.9
0°-40°	1145.0	16.2
0°-60°	1914.0	27.1
0°-90°	2274.3	32.2
90°-120°	2262.0	32.0
90°-150°	4166.0	58.9
90°-180°	4794.0	67.8
0°-180°	7067.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	914	904	907	904	902	87
15°	879	870	874	871	869	248
25°	815	805	810	801	800	375
35°	718	710	712	702	702	448
45°	581	573	571	561	559	445
55°	381	374	372	366	364	341
65°	204	203	205	204	204	207
75°	110	110	110	111	111	117
85°	28	30	31	31	31	33
90°	2	5	10	11	10	5
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°	909.1	909.1	909.1	909.1	909.1
2.5°	914.8	906.8	909.1	907.2	902.9
5°	913.8	903.9	906.8	903.6	902.1
7.5°	906.8	897.0	899.9	896.8	895.8
10°	900.5	891.3	894.3	891.1	889.6
12.5°	893.6	883.8	887.4	883.6	882.1
15°	879.4	870.2	873.9	870.7	869.2
17.5°	863.7	853.9	857.6	854.0	852.0
20°	851.2	842.0	845.7	840.2	839.5
22.5°	837.4	828.2	831.9	824.6	824.4
25°	815.2	805.2	809.7	801.1	800.3
27.5°	788.7	779.5	783.2	774.4	773.5
30°	770.5	761.4	765.1	755.6	754.1
32.5°	749.9	741.3	744.4	735.0	734.1
35°	718.1	709.7	711.8	702.4	701.6
37.5°	681.9	674.2	675.5	665.1	664.4
40°	656.2	648.6	649.2	638.2	637.4
42.5°	628.0	620.4	619.7	608.7	608.0
45°	581.0	573.4	570.9	560.6	559.1
47.5°	527.5	519.8	515.1	506.8	505.7
50°	488.6	481.0	476.9	469.8	467.5
52.5°	446.7	439.0	435.5	429.1	426.8
55°	380.6	374.4	372.0	365.7	364.1
57.5°	317.8	313.6	312.9	306.8	306.2
60°	279.6	277.3	277.2	271.7	271.7
62.5°	247.0	245.3	246.5	242.9	242.3
65°	204.4	202.9	205.2	203.6	203.6
67.5°	170.7	170.7	172.1	171.5	171.5
70°	151.9	151.9	152.7	152.7	152.7
72.5°	135.0	134.4	136.4	136.4	135.8
75°	110.4	110.4	110.4	111.2	111.2
77.5°	86.0	86.1	86.8	86.6	86.0
80°	69.7	70.5	70.5	69.7	69.7
82.5°	53.4	54.2	54.2	54.0	53.4
85°	28.2	29.7	31.3	31.3	31.3
87.5°	8.5	11.5	14.6	14.8	14.0
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)