

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: P564435

Luminaire Tested: **SQ4-PR1-150U-050D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564435  
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-050D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

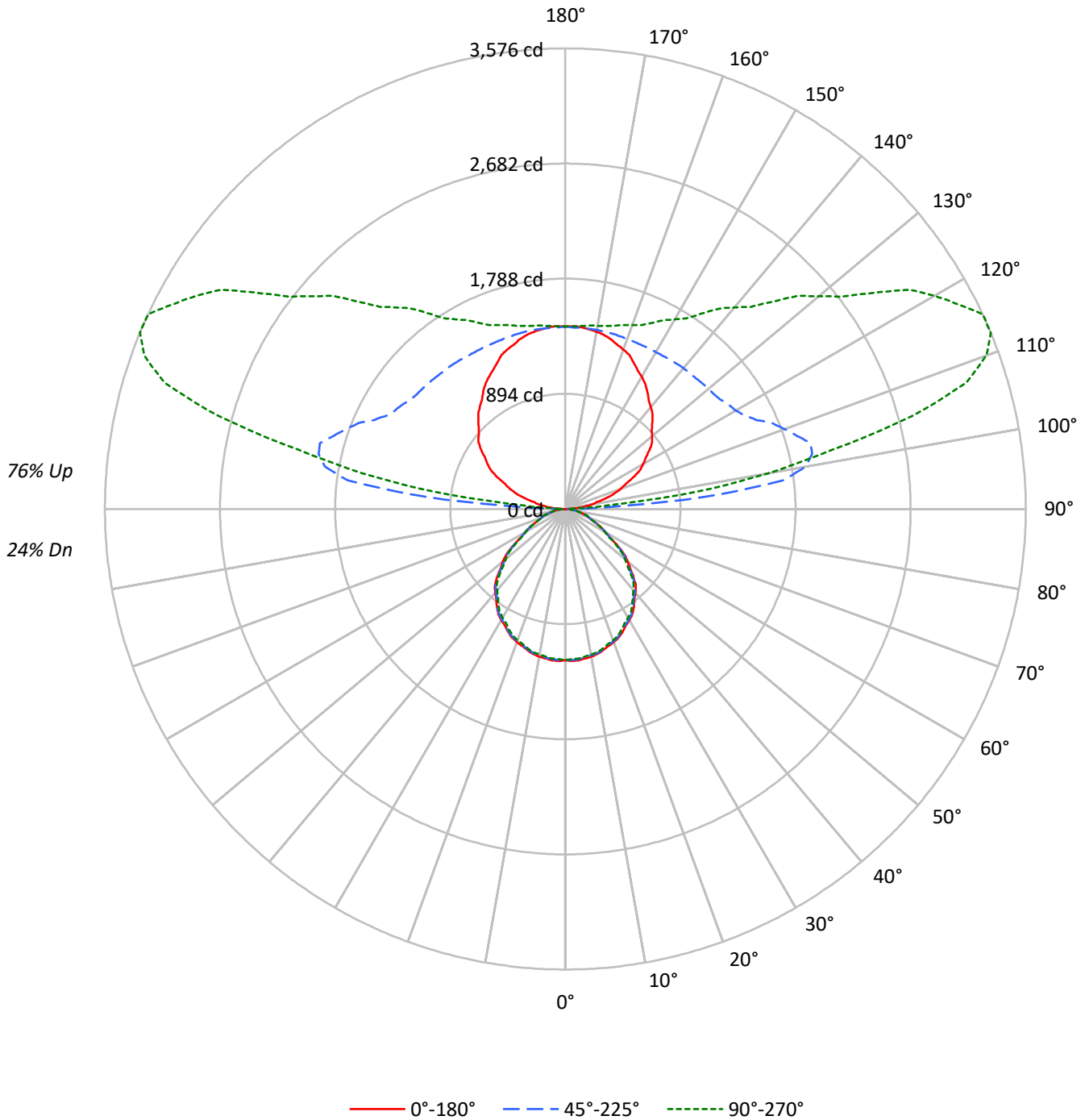
Lumens per Lamp: N/A  
Luminaire Lumens: 12065.8 lumens  
Efficiency: N/A  
Efficacy: 143.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 84.1  
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24	18
3	77	68	61	55	68	61	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	52	47	62	54	47	42	42	37	34	31	28	25	20	19	17	13
5	64	53	46	40	57	48	41	36	37	33	29	28	24	22	18	17	15	11
6	59	48	40	34	52	43	36	31	33	29	25	25	22	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	26	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	11	8
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	10	7
10	44	32	25	21	39	29	23	19	23	19	15	17	14	12	12	10	9	7

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7224	7224	7224
5°	7289	7233	7195
10°	7266	7215	7177
15°	7234	7189	7150
20°	7197	7151	7098
25°	7146	7099	7016
30°	7070	7019	6918
35°	6965	6904	6806
40°	6806	6733	6611
45°	6529	6414	6283
50°	6040	5894	5779
55°	5272	5153	5044
60°	4442	4405	4318
65°	3842	3857	3828
70°	3528	3548	3548
75°	3389	3389	3413
80°	3188	3223	3188
85°	2569	2858	2858



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.1	0.9
10°-20°	317.8	2.6
20°-30°	479.3	4.0
30°-40°	571.1	4.7
40°-50°	563.0	4.7
50°-60°	430.3	3.6
60°-70°	266.3	2.2
70°-80°	151.2	1.3
80°-90°	49.0	0.4
90°-100°	657.9	5.5
100°-110°	1778.8	14.7
110°-120°	1870.1	15.5
120°-130°	1519.0	12.6
130°-140°	1191.6	9.9
140°-150°	914.5	7.6
150°-160°	657.7	5.5
160°-170°	401.8	3.3
170°-180°	135.5	1.1
0°-30°	908.1	7.5
0°-40°	1479.1	12.3
0°-60°	2472.4	20.5
0°-90°	2938.9	24.4
90°-120°	4306.8	35.7
90°-150°	7931.9	65.7
90°-180°	9127.0	75.6
0°-180°	12065.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1180	1168	1171	1167	1165	112
15°	1136	1124	1129	1125	1123	321
25°	1053	1040	1046	1035	1034	485
35°	928	917	920	907	906	579
45°	751	741	737	724	722	575
55°	492	484	480	472	470	440
65°	264	262	265	263	263	267
75°	143	143	143	144	144	151
85°	36	38	40	40	40	42
90°	3	9	20	21	20	8
95°	102	358	1094	566	337	107
105°	331	511	1973	2911	2792	348
115°	582	712	1636	3168	3576	575
125°	797	913	1475	2489	2924	710
135°	955	1069	1435	2010	2275	738
145°	1111	1194	1416	1720	1851	695
155°	1254	1303	1403	1543	1594	578
165°	1365	1379	1410	1464	1472	385
175°	1417	1416	1411	1429	1426	135
180°	1416	1416	1416	1416	1416	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1174.4	1174.4	1174.4	1174.4	1174.4
2.5°	1181.7	1171.4	1174.4	1171.9	1166.3
5°	1180.5	1167.6	1171.4	1167.3	1165.3
7.5°	1171.4	1158.7	1162.5	1158.4	1157.2
10°	1163.3	1151.4	1155.2	1151.1	1149.1
12.5°	1154.4	1141.7	1146.3	1141.4	1139.4
15°	1136.0	1124.1	1128.9	1124.8	1122.8
17.5°	1115.8	1103.1	1107.9	1103.2	1100.6
20°	1099.6	1087.7	1092.5	1085.4	1084.4
22.5°	1081.8	1069.9	1074.7	1065.2	1065.0
25°	1053.0	1040.2	1046.0	1034.8	1033.8
27.5°	1018.9	1007.0	1011.8	1000.4	999.2
30°	995.4	983.5	988.3	976.1	974.1
32.5°	968.7	957.6	961.6	949.4	948.2
35°	927.6	916.7	919.5	907.4	906.4
37.5°	880.9	871.0	872.6	859.2	858.2
40°	847.7	837.8	838.6	824.4	823.4
42.5°	811.3	801.4	800.6	786.4	785.4
45°	750.6	740.7	737.4	724.2	722.3
47.5°	681.4	671.5	665.4	654.7	653.3
50°	631.2	621.3	616.0	606.9	603.9
52.5°	577.0	567.1	562.6	554.3	551.3
55°	491.6	483.7	480.5	472.4	470.4
57.5°	410.5	405.2	404.2	396.3	395.5
60°	361.1	358.2	358.1	351.0	351.0
62.5°	319.1	316.9	318.4	313.8	313.0
65°	264.0	262.0	265.0	263.0	263.0
67.5°	220.5	220.5	222.3	221.5	221.5
70°	196.2	196.2	197.3	197.3	197.3
72.5°	174.4	173.6	176.2	176.2	175.4
75°	142.6	142.6	142.6	143.6	143.6
77.5°	111.1	111.3	112.1	111.9	111.1
80°	90.0	91.0	91.0	90.0	90.0
82.5°	69.0	70.0	70.0	69.8	69.0
85°	36.4	38.4	40.5	40.5	40.5
87.5°	11.1	15.5	20.1	20.4	19.3
90°	3.0	9.0	19.8	21.3	19.8
92.5°	43.3	157.7	311.2	135.1	97.8
95°	102.1	358.4	1094.1	566.2	336.8
97.5°	164.0	411.0	1705.4	1411.3	1036.5
100°	210.3	432.3	1895.6	1976.9	1598.4
102.5°	252.9	461.8	1962.6	2405.7	2122.6
105°	330.7	510.9	1973.3	2910.8	2791.6
107.5°	402.6	567.1	1887.1	3225.8	3265.5
110°	458.7	607.7	1810.3	3310.4	3478.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	508.6	648.1	1739.5	3293.5	3576.3
115°	582.1	711.7	1636.5	3168.1	3576.3
117.5°	654.0	775.6	1568.6	2976.4	3439.2
120°	697.9	817.1	1528.4	2838.9	3311.2
122.5°	739.3	856.1	1504.0	2691.5	3167.3
125°	796.9	913.2	1475.0	2489.1	2924.1
127.5°	850.0	964.1	1458.0	2323.9	2706.5
130°	879.2	996.9	1450.6	2221.9	2567.6
132.5°	909.7	1026.2	1443.3	2129.9	2448.1
135°	955.4	1068.6	1435.4	2009.8	2275.0
137.5°	1001.4	1108.4	1428.7	1912.4	2128.4
140°	1033.1	1132.9	1426.3	1849.7	2041.9
142.5°	1063.6	1157.5	1421.4	1793.1	1961.4
145°	1110.8	1194.3	1415.6	1720.3	1851.4
147.5°	1153.8	1227.7	1408.9	1654.4	1755.1
150°	1185.5	1251.1	1406.5	1618.6	1699.0
152.5°	1214.8	1272.0	1405.2	1585.3	1651.5
155°	1254.1	1303.2	1403.4	1543.2	1593.9
157.5°	1294.9	1329.2	1403.7	1513.9	1547.2
160°	1318.1	1346.4	1404.9	1495.4	1519.2
162.5°	1336.4	1359.9	1406.1	1480.6	1498.5
165°	1365.3	1378.7	1409.5	1464.5	1472.0
167.5°	1385.1	1394.4	1409.8	1450.7	1454.3
170°	1397.3	1401.8	1411.0	1444.5	1444.5
172.5°	1407.1	1408.0	1411.0	1437.2	1436.0
175°	1417.1	1415.6	1411.0	1429.2	1426.3
177.5°	1420.5	1416.9	1410.7	1422.8	1419.3
180°	1415.6	1415.6	1415.6	1415.6	1415.6

(END OF REPORT)