

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: P565179

Luminaire Tested: **SQ4-PW1-150U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565179
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-125D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

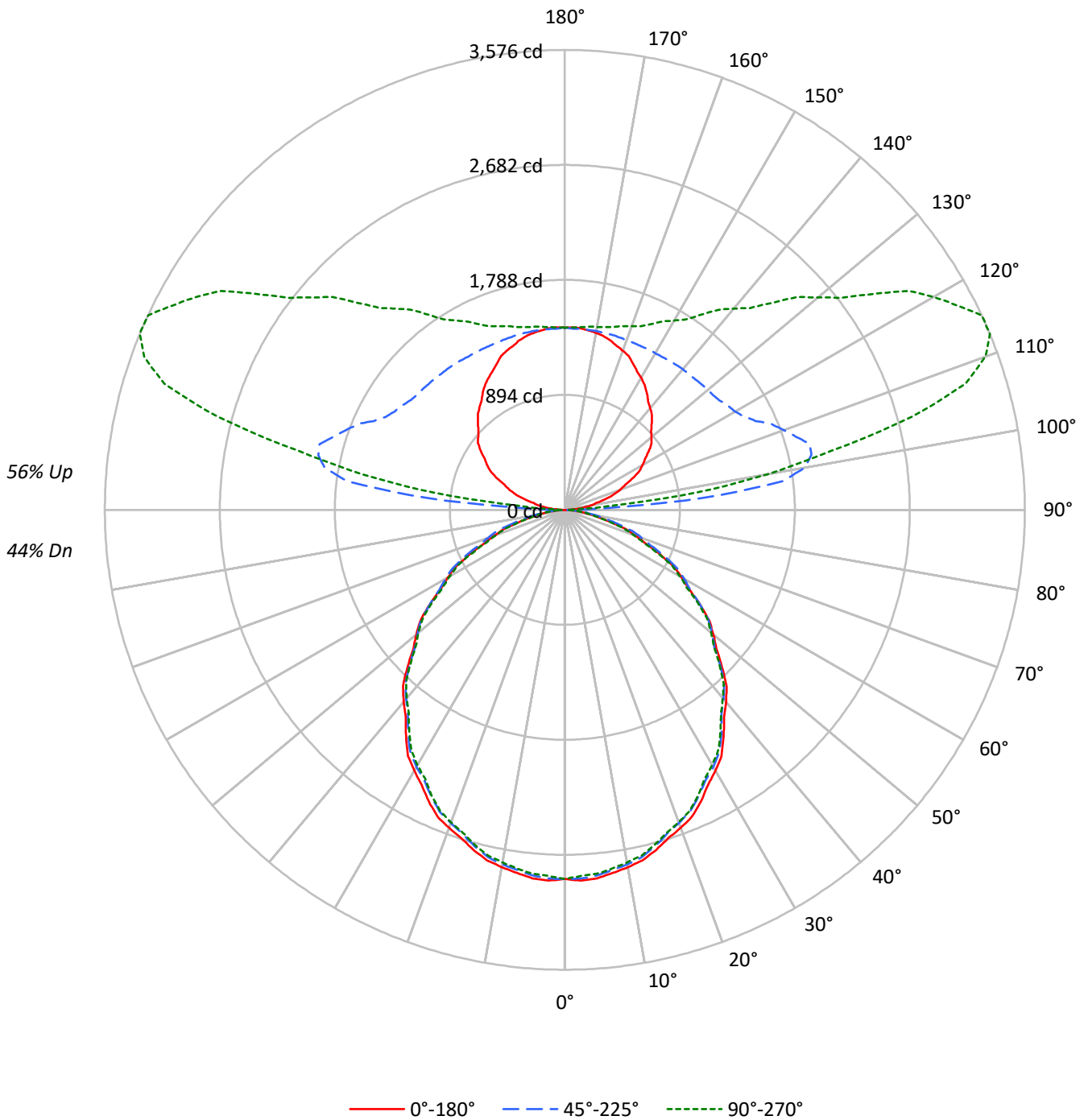
Lumens per Lamp: N/A
Luminaire Lumens: 16430.2 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 127.1
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	92	89	85	88	85	82	79	70	68	66	57	56	54	45	44	43	38
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	35	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	62	52	45	39	43	38	34	36	32	29	29	26	23	20
6	62	50	42	36	57	46	39	34	39	34	30	32	28	25	26	23	21	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	50	37	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	19	23	19	16	19	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17648	17648	17648
5°	17763	17623	17544
10°	17621	17479	17384
15°	17434	17241	17176
20°	17226	16961	16928
25°	16986	16677	16625
30°	16627	16375	16267
35°	16154	15926	15831
40°	15650	15407	15346
45°	15042	14843	14778
50°	14418	14297	14200
55°	13744	13744	13528
60°	12906	13155	12688
65°	11811	12400	11517
70°	10411	11411	10139
75°	8893	10214	8650
80°	6896	8597	6985
85°	4460	6599	5886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.2	1.6
10°-20°	762.8	4.6
20°-30°	1131.5	6.9
30°-40°	1324.0	8.1
40°-50°	1318.1	8.0
50°-60°	1138.2	6.9
60°-70°	819.3	5.0
70°-80°	429.7	2.6
80°-90°	109.5	0.7
90°-100°	657.9	4.0
100°-110°	1778.8	10.8
110°-120°	1870.1	11.4
120°-130°	1519.0	9.2
130°-140°	1191.6	7.3
140°-150°	914.5	5.6
150°-160°	657.7	4.0
160°-170°	401.8	2.4
170°-180°	135.5	0.8
0°-30°	2164.6	13.2
0°-40°	3488.6	21.2
0°-60°	5944.9	36.2
0°-90°	7303.3	44.5
90°-120°	4306.8	26.2
90°-150°	7931.9	48.3
90°-180°	9127.0	55.6
0°-180°	16430.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2869	2869	2869	2869	2869	
5°	2877	2845	2854	2846	2842	272
15°	2738	2703	2708	2702	2697	772
25°	2503	2461	2457	2442	2450	1151
35°	2151	2122	2121	2101	2108	1345
45°	1729	1714	1706	1701	1699	1334
55°	1282	1279	1282	1264	1262	1144
65°	812	836	852	818	791	804
75°	374	409	430	401	364	401
85°	63	83	94	88	83	83
90°	3	9	20	21	20	9
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°	2869.3	2869.3	2869.3	2869.3	2869.3
2.5°	2885.5	2861.8	2869.3	2863.0	2849.1
5°	2876.9	2844.8	2854.2	2846.5	2841.5
7.5°	2847.6	2817.9	2824.8	2816.7	2813.7
10°	2821.3	2791.6	2798.6	2788.3	2783.4
12.5°	2791.0	2759.3	2766.2	2756.0	2753.1
15°	2737.9	2703.3	2707.5	2702.4	2697.4
17.5°	2676.2	2641.1	2641.8	2633.7	2632.7
20°	2631.7	2594.6	2591.3	2581.3	2586.2
22.5°	2583.2	2544.1	2540.7	2526.7	2533.6
25°	2502.8	2460.8	2457.3	2442.3	2449.7
27.5°	2409.7	2368.2	2368.3	2347.2	2355.1
30°	2341.0	2301.4	2305.6	2280.5	2290.4
32.5°	2268.2	2232.6	2234.8	2209.7	2219.6
35°	2151.4	2121.7	2121.0	2101.0	2108.4
37.5°	2032.1	2005.8	2001.7	1990.1	1992.1
40°	1949.1	1926.9	1918.8	1911.2	1911.2
42.5°	1862.2	1841.9	1833.9	1828.2	1826.3
45°	1729.2	1714.4	1706.4	1701.3	1698.9
47.5°	1597.7	1583.9	1577.0	1573.4	1570.9
50°	1506.7	1496.8	1494.1	1486.4	1484.0
52.5°	1415.7	1409.8	1407.1	1397.5	1395.0
55°	1281.7	1279.3	1281.7	1264.0	1261.5
57.5°	1142.2	1146.1	1154.3	1130.4	1124.5
60°	1049.1	1059.0	1069.4	1041.3	1031.4
62.5°	954.1	969.9	984.4	952.3	938.4
65°	811.5	836.2	852.0	818.5	791.3
67.5°	674.0	704.6	723.5	687.4	656.8
70°	578.9	613.5	634.5	598.4	563.8
72.5°	496.0	534.6	551.6	517.5	482.9
75°	374.2	408.8	429.8	401.1	364.0
77.5°	265.4	298.1	315.5	290.5	259.9
80°	194.7	229.3	242.7	221.9	197.2
82.5°	138.0	166.7	176.0	163.4	146.6
85°	63.2	83.0	93.5	88.4	83.4
87.5°	16.8	31.8	42.4	42.7	44.4
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)