

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: P563835

Luminaire Tested: **SQ4-PP3-150U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563835
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PP3-150U-125D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

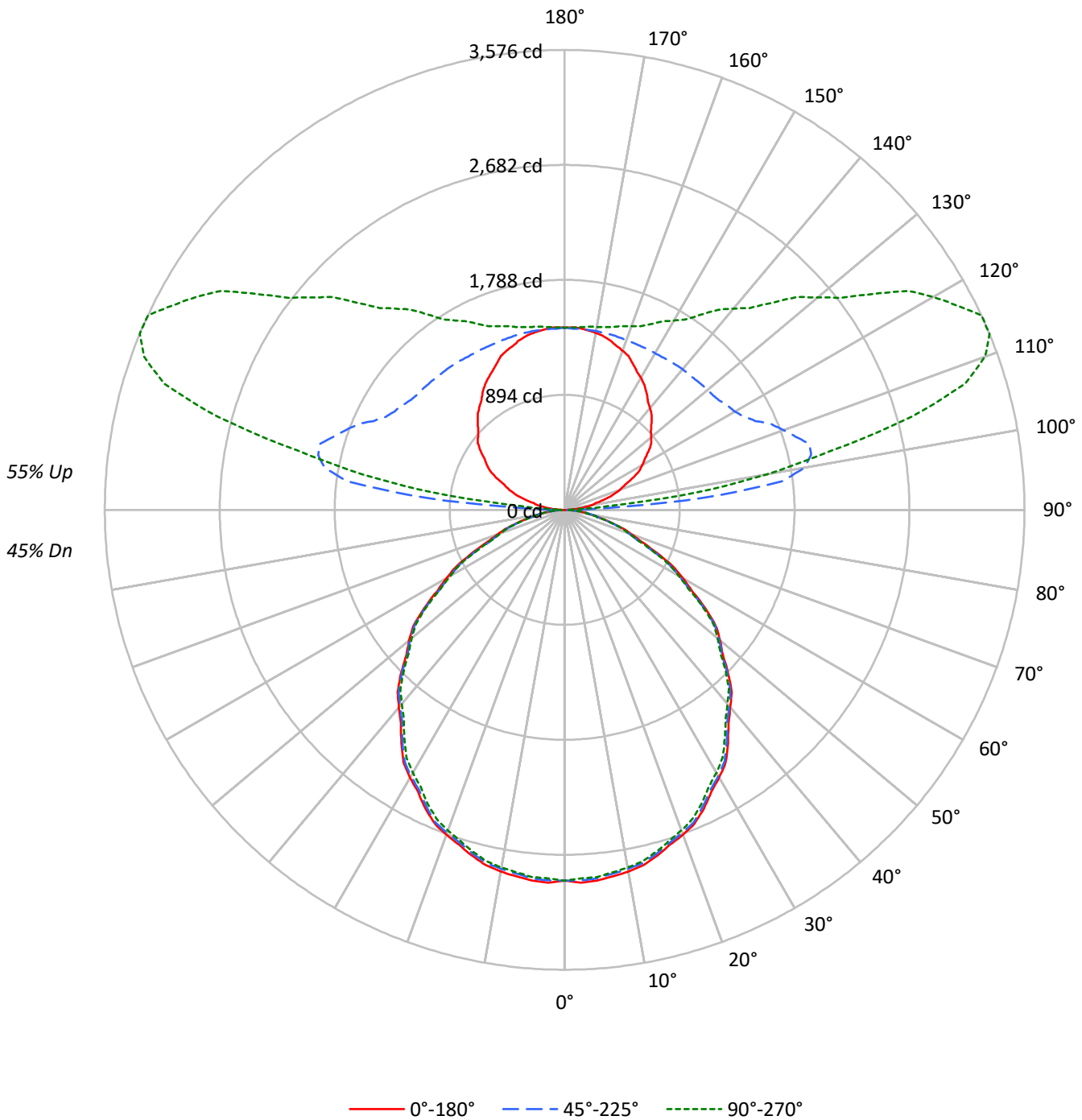
Lumens per Lamp: N/A
Luminaire Lumens: 16510.8 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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	45
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	39	37	32
3	81	71	64	58	74	66	59	54	55	50	47	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20
6	62	50	42	37	57	47	40	34	39	34	30	33	28	25	26	23	21	18
7	58	45	38	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	34	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

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	17102
30°	17071	16982	16766
35°	16624	16511	16302
40°	16093	15991	15809
45°	15653	15543	15389
50°	15091	14995	14850
55°	14311	14121	14013
60°	13027	12655	12592
65°	11477	10998	10962
70°	9909	9499	9499
75°	8529	8408	8289
80°	7520	7608	7431
85°	5886	6422	6422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.7	1.7
10°-20°	778.6	4.7
20°-30°	1166.3	7.1
30°-40°	1368.0	8.3
40°-50°	1372.3	8.3
50°-60°	1170.7	7.1
60°-70°	763.5	4.6
70°-80°	383.0	2.3
80°-90°	109.0	0.7
90°-100°	657.9	4.0
100°-110°	1778.8	10.8
110°-120°	1870.1	11.3
120°-130°	1519.0	9.2
130°-140°	1191.6	7.2
140°-150°	914.5	5.5
150°-160°	657.7	4.0
160°-170°	401.8	2.4
170°-180°	135.5	0.8
0°-30°	2217.6	13.4
0°-40°	3585.6	21.7
0°-60°	6128.5	37.1
0°-90°	7383.9	44.7
90°-120°	4306.8	26.1
90°-150°	7931.9	48.0
90°-180°	9127.0	55.3
0°-180°	16510.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2884	2884	2884	2884	2884	
5°	2894	2867	2876	2866	2866	275
15°	2783	2756	2768	2757	2752	785
25°	2563	2533	2545	2522	2520	1178
35°	2214	2192	2199	2174	2171	1383
45°	1800	1787	1787	1769	1769	1386
55°	1334	1330	1317	1309	1307	1186
65°	789	774	756	751	753	787
75°	359	359	354	351	349	389
85°	83	91	91	91	91	98
90°	3	9	20	21	20	10
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°	2883.8	2883.8	2883.8	2883.8	2883.8
2.5°	2902.0	2878.3	2883.8	2879.5	2867.6
5°	2893.9	2866.8	2876.2	2866.1	2866.1
7.5°	2874.2	2844.6	2854.0	2843.9	2843.4
10°	2856.0	2826.4	2835.8	2825.6	2823.2
12.5°	2829.7	2800.1	2811.5	2799.4	2798.9
15°	2782.7	2755.5	2767.6	2757.3	2752.4
17.5°	2729.7	2700.0	2714.5	2700.3	2698.3
20°	2689.2	2659.6	2674.0	2653.8	2653.8
22.5°	2640.7	2611.0	2627.5	2601.3	2601.3
25°	2562.8	2533.2	2545.1	2522.3	2519.9
27.5°	2470.3	2441.2	2453.7	2427.9	2427.4
30°	2403.6	2376.4	2391.0	2363.1	2360.6
32.5°	2330.8	2305.6	2316.2	2288.3	2285.8
35°	2214.0	2191.8	2198.9	2173.6	2171.1
37.5°	2091.2	2068.5	2076.6	2054.8	2053.8
40°	2004.3	1989.4	1991.6	1973.8	1968.9
42.5°	1923.4	1906.6	1908.7	1891.0	1890.0
45°	1799.5	1787.2	1786.9	1769.2	1769.2
47.5°	1668.1	1658.7	1656.0	1641.3	1640.8
50°	1577.1	1569.7	1567.0	1554.3	1551.9
52.5°	1482.1	1478.6	1470.0	1459.3	1458.8
55°	1334.5	1329.6	1316.8	1309.2	1306.7
57.5°	1174.3	1164.4	1150.0	1138.9	1140.9
60°	1059.0	1049.1	1028.7	1023.6	1023.6
62.5°	947.8	935.9	915.4	908.5	912.4
65°	788.6	773.7	755.7	750.7	753.2
67.5°	644.0	630.7	611.1	611.1	609.1
70°	551.0	543.6	528.2	528.2	528.2
72.5°	468.1	464.6	453.4	453.4	451.4
75°	358.9	358.9	353.8	351.3	348.8
77.5°	268.9	269.9	267.4	264.8	260.3
80°	212.3	217.2	214.8	212.2	209.8
82.5°	159.7	164.7	164.3	159.7	159.2
85°	83.4	90.8	91.0	91.0	91.0
87.5°	22.9	32.0	36.3	36.7	38.3
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)