

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: P523975

Luminaire Tested: **SQ4-PP3-150U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523975
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-125D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

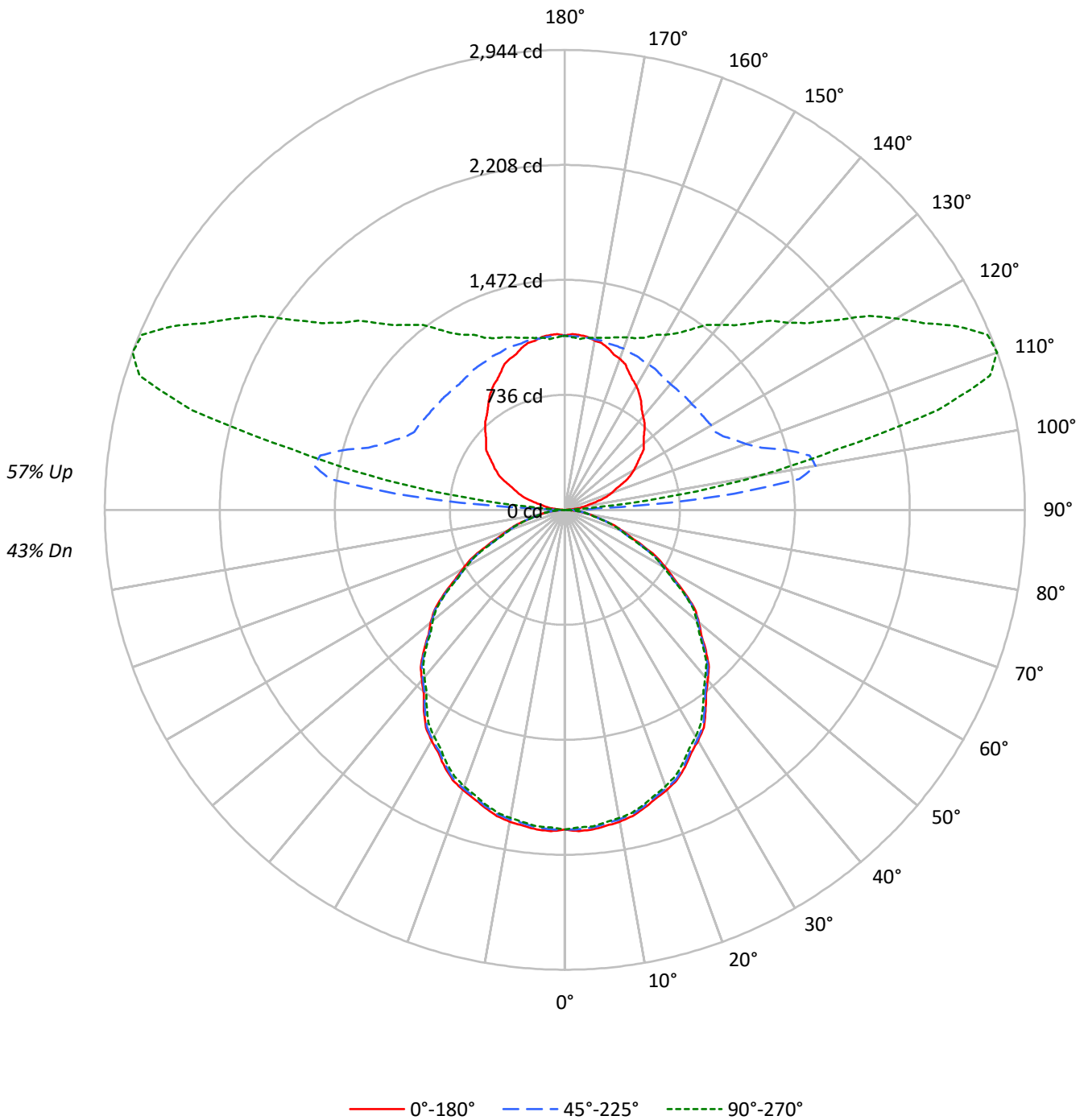
Lumens per Lamp: N/A
Luminaire Lumens: 12161.5 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 106.8
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37
2	88	81	75	70	80	74	69	65	61	58	55	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	20
6	62	50	42	37	57	46	39	34	39	33	29	32	28	25	25	23	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	21	18	16	14
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18880	18880	18880
5°	19018	18902	18836
10°	18986	18852	18768
15°	18861	18758	18655
20°	18735	18630	18489
25°	18513	18385	18203
30°	18171	18075	17846
35°	17695	17574	17352
40°	17129	17021	16827
45°	16661	16545	16380
50°	16063	15960	15806
55°	15231	15030	14914
60°	13867	13468	13402
65°	12217	11706	11667
70°	10547	10110	10110
75°	9079	8951	8823
80°	8002	8097	7911
85°	6267	6838	6838



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.5	1.6
10°-20°	552.5	4.5
20°-30°	827.6	6.8
30°-40°	970.7	8.0
40°-50°	973.7	8.0
50°-60°	830.7	6.8
60°-70°	541.7	4.5
70°-80°	271.8	2.2
80°-90°	75.2	0.6
90°-100°	507.9	4.2
100°-110°	1445.2	11.9
110°-120°	1384.7	11.4
120°-130°	1095.9	9.0
130°-140°	879.7	7.2
140°-150°	688.7	5.7
150°-160°	503.9	4.1
160°-170°	312.1	2.6
170°-180°	105.9	0.9
0°-30°	1573.6	12.9
0°-40°	2544.3	20.9
0°-60°	4348.7	35.8
0°-90°	5237.4	43.1
90°-120°	3337.9	27.4
90°-150°	6002.1	49.4
90°-180°	6924.0	56.9
0°-180°	12161.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2046	2046	2046	2046	2046	
5°	2054	2034	2041	2034	2034	195
15°	1975	1955	1964	1957	1953	557
25°	1819	1798	1806	1790	1788	836
35°	1571	1555	1560	1542	1541	981
45°	1277	1268	1268	1255	1255	983
55°	947	943	934	929	927	842
65°	560	549	536	533	534	558
75°	255	255	251	249	248	276
85°	59	64	65	65	65	70
90°	0	0	0	0	0	4
95°	55	219	983	340	210	63
105°	225	341	1473	2602	2473	238
115°	418	504	1117	2366	2778	411
125°	589	653	1066	1769	2115	527
135°	720	781	1053	1494	1689	556
145°	850	893	1062	1293	1409	531
155°	971	993	1087	1169	1216	449
165°	1072	1076	1100	1124	1140	302
175°	1123	1117	1113	1106	1098	106
180°	1115	1115	1115	1115	1115	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2046.3	2046.3	2046.3	2046.3	2046.3
2.5°	2059.2	2042.4	2046.3	2043.3	2034.8
5°	2053.5	2034.2	2040.9	2033.8	2033.8
7.5°	2039.5	2018.5	2025.2	2018.0	2017.6
10°	2026.6	2005.6	2012.3	2005.0	2003.3
12.5°	2007.9	1986.9	1995.0	1986.4	1986.1
15°	1974.6	1955.3	1963.8	1956.6	1953.1
17.5°	1936.9	1915.9	1926.2	1916.1	1914.7
20°	1908.2	1887.2	1897.5	1883.1	1883.1
22.5°	1873.8	1852.8	1864.5	1845.8	1845.8
25°	1818.6	1797.5	1806.0	1789.8	1788.1
27.5°	1752.9	1732.2	1741.1	1722.8	1722.4
30°	1705.6	1686.3	1696.6	1676.8	1675.1
32.5°	1653.9	1636.0	1643.5	1623.7	1622.0
35°	1571.1	1555.3	1560.3	1542.3	1540.6
37.5°	1483.9	1467.8	1473.5	1458.1	1457.4
40°	1422.2	1411.7	1413.2	1400.6	1397.1
42.5°	1364.8	1352.9	1354.4	1341.8	1341.1
45°	1276.9	1268.2	1268.0	1255.4	1255.4
47.5°	1183.7	1177.0	1175.1	1164.7	1164.3
50°	1119.1	1113.9	1111.9	1102.9	1101.2
52.5°	1051.7	1049.2	1043.1	1035.5	1035.2
55°	946.9	943.4	934.4	929.0	927.2
57.5°	833.2	826.2	816.0	808.2	809.6
60°	751.5	744.4	729.9	726.3	726.3
62.5°	672.5	664.1	649.6	644.6	647.4
65°	559.6	549.0	536.2	532.7	534.4
67.5°	457.0	447.5	433.7	433.6	432.2
70°	391.0	385.7	374.8	374.8	374.8
72.5°	332.1	329.7	321.7	321.7	320.3
75°	254.7	254.7	251.1	249.2	247.5
77.5°	190.8	191.5	189.7	187.9	184.7
80°	150.6	154.2	152.4	150.6	148.9
82.5°	113.3	116.9	116.6	113.3	113.0
85°	59.2	64.4	64.6	64.6	64.6
87.5°	15.8	21.4	23.0	23.0	24.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.0	89.9	208.5	60.7	45.8
95°	55.1	218.8	983.3	340.3	209.8
97.5°	101.3	256.3	1514.4	1083.6	742.6
100°	133.5	278.6	1629.6	1650.7	1271.5
102.5°	169.1	302.6	1604.2	2112.9	1781.8
105°	224.6	340.7	1472.8	2601.5	2473.1
107.5°	281.0	385.0	1319.4	2739.3	2853.7
110°	320.0	417.4	1231.2	2686.6	2943.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.3	449.7	1171.9	2561.9	2928.3
115°	417.5	504.5	1116.8	2365.9	2778.2
117.5°	470.5	552.1	1084.2	2151.6	2588.3
120°	512.8	581.2	1080.8	2029.1	2447.6
122.5°	546.7	615.1	1072.3	1921.6	2310.3
125°	589.1	653.4	1065.9	1768.9	2114.9
127.5°	635.3	695.4	1062.5	1677.6	1962.8
130°	659.1	719.1	1057.5	1614.1	1862.7
132.5°	684.5	742.9	1057.5	1564.5	1793.2
135°	720.5	780.6	1053.2	1494.2	1689.0
137.5°	754.4	812.9	1052.8	1434.7	1602.9
140°	779.9	839.9	1051.1	1385.4	1547.0
142.5°	808.7	858.8	1056.2	1346.0	1491.0
145°	849.8	893.3	1061.7	1293.2	1409.2
147.5°	885.0	927.2	1071.0	1239.9	1340.2
150°	915.5	944.5	1074.4	1222.2	1292.7
152.5°	939.2	969.9	1077.8	1198.4	1263.9
155°	970.6	993.4	1087.1	1168.7	1216.4
157.5°	1009.6	1023.2	1089.2	1155.3	1189.3
160°	1029.9	1040.3	1097.7	1145.0	1174.0
162.5°	1041.8	1053.8	1099.4	1136.4	1158.8
165°	1072.3	1076.4	1099.8	1123.5	1140.1
167.5°	1093.1	1089.3	1109.6	1120.3	1127.0
170°	1099.8	1097.8	1106.2	1108.5	1116.8
172.5°	1115.1	1108.1	1111.3	1105.1	1111.7
175°	1123.2	1116.9	1112.6	1106.0	1097.7
177.5°	1126.5	1116.6	1111.3	1104.5	1106.2
180°	1114.7	1114.7	1114.7	1114.7	1114.7

(END OF REPORT)