

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: P519534

Luminaire Tested: **SQ4-WB-125U-125D-840-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519534
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-125U-125D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

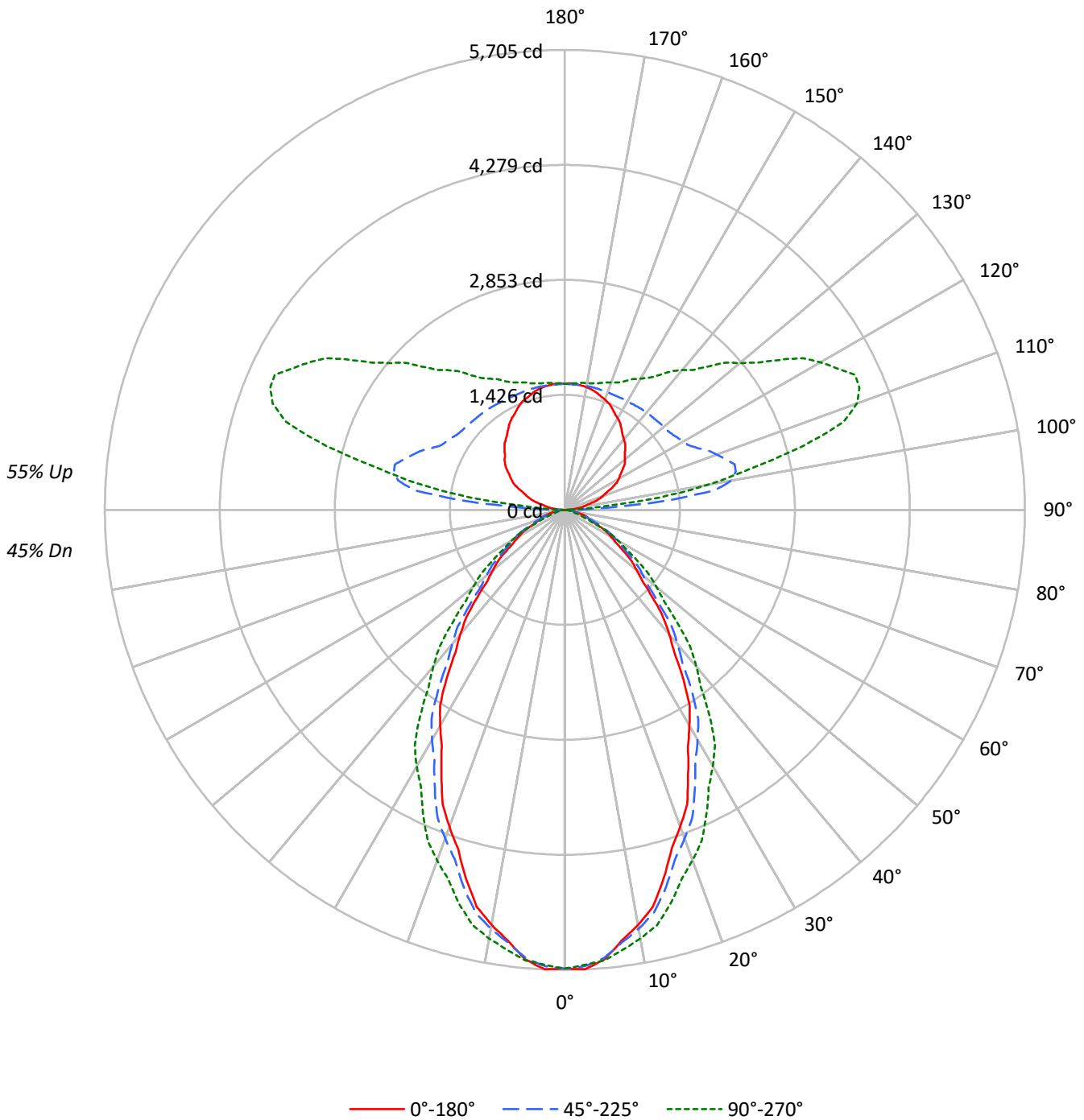
Lumens per Lamp: N/A
Luminaire Lumens: 18395.5 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 152.7
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	81	81	81	65	65	65	52	52	52	45
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	46	46	40
2	90	83	78	73	82	77	72	68	64	61	58	53	51	49	43	41	40	35
3	83	74	67	62	76	68	63	58	58	54	50	48	45	43	39	37	35	31
4	76	66	59	54	70	61	55	50	52	47	44	44	40	38	36	33	31	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	46	41	60	50	44	39	43	38	34	36	33	30	30	27	25	23
7	61	49	42	36	56	46	39	34	39	34	31	33	30	27	28	25	23	20
8	56	45	38	33	52	42	35	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	33	28	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	29	25	31	26	23	27	23	20	22	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26252	26252	26252
5°	25925	25832	25983
10°	24493	24716	25288
15°	22611	23136	24173
20°	20533	21305	22715
25°	18417	19421	21162
30°	16467	17544	19553
35°	14400	15441	17648
40°	12120	13082	15278
45°	10002	10866	12756
50°	8351	9104	10627
55°	7090	7813	8776
60°	6059	6773	7004
65°	4825	5697	4524
70°	4277	4446	2762
75°	3960	3606	1691
80°	3647	3318	1458
85°	3303	3038	1191



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.0	2.8
10°-20°	1357.7	7.4
20°-30°	1758.6	9.6
30°-40°	1722.1	9.4
40°-50°	1318.2	7.2
50°-60°	878.4	4.8
60°-70°	479.3	2.6
70°-80°	199.7	1.1
80°-90°	60.2	0.3
90°-100°	731.8	4.0
100°-110°	1971.4	10.7
110°-120°	2068.9	11.2
120°-130°	1678.9	9.1
130°-140°	1316.7	7.2
140°-150°	1010.9	5.5
150°-160°	726.8	4.0
160°-170°	444.1	2.4
170°-180°	149.7	0.8
0°-30°	3638.3	19.8
0°-40°	5360.4	29.1
0°-60°	7556.9	41.1
0°-90°	8296.2	45.1
90°-120°	4772.2	25.9
90°-150°	8778.6	47.7
90°-180°	10099.0	54.9
0°-180°	18395.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5691	5691	5691	5691	5691	
5°	5598	5542	5578	5591	5611	521
15°	4734	4717	4844	4976	5062	1322
25°	3618	3628	3816	3982	4158	1664
35°	2557	2569	2742	2926	3134	1590
45°	1533	1562	1666	1792	1955	1196
55°	882	918	971	1008	1091	799
65°	442	479	522	456	414	459
75°	222	222	202	139	95	237
85°	62	62	57	37	22	68
90°	4	12	24	26	26	11
95°	112	398	1200	614	424	117
105°	365	567	2180	3262	3061	383
115°	644	788	1816	3508	3968	633
125°	879	1009	1630	2755	3242	785
135°	1058	1181	1584	2223	2517	817
145°	1224	1319	1564	1900	2041	767
155°	1389	1440	1550	1705	1760	639
165°	1507	1524	1556	1618	1626	425
175°	1566	1564	1558	1580	1576	149
180°	1564	1564	1564	1564	1564	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5690.8	5690.8	5690.8	5690.8	5690.8
2.5°	5704.8	5654.0	5666.8	5666.5	5650.8
5°	5598.4	5542.2	5578.4	5591.3	5610.9
7.5°	5390.6	5348.2	5414.1	5463.0	5502.5
10°	5228.8	5192.2	5276.3	5347.4	5398.6
12.5°	5041.1	5010.3	5114.5	5209.9	5276.8
15°	4734.4	4717.3	4844.3	4976.1	5061.5
17.5°	4406.3	4398.0	4543.6	4697.4	4806.8
20°	4182.6	4180.1	4339.9	4500.1	4627.0
22.5°	3956.8	3962.2	4130.1	4296.7	4441.3
25°	3618.2	3628.0	3815.5	3981.8	4157.6
27.5°	3305.1	3309.5	3503.4	3678.9	3866.4
30°	3091.4	3103.6	3293.6	3475.3	3670.7
32.5°	2877.6	2891.8	3077.9	3265.7	3464.9
35°	2557.0	2569.2	2741.8	2926.3	3133.8
37.5°	2226.4	2243.0	2396.2	2570.6	2774.7
40°	2012.6	2037.0	2172.4	2336.8	2537.0
42.5°	1806.9	1837.1	1962.7	2118.6	2299.3
45°	1533.2	1562.5	1665.5	1791.6	1955.2
47.5°	1297.5	1331.2	1410.3	1518.9	1658.5
50°	1163.6	1195.4	1268.5	1348.9	1480.8
52.5°	1045.8	1077.5	1142.7	1204.6	1316.9
55°	881.5	918.1	971.4	1008.2	1091.2
57.5°	746.6	781.8	824.0	840.7	890.9
60°	656.7	695.8	734.1	732.2	759.1
62.5°	574.8	608.0	646.2	619.8	621.3
65°	442.0	478.6	521.9	456.0	414.5
67.5°	357.1	364.9	409.5	318.0	268.7
70°	317.1	317.1	329.6	246.3	204.8
72.5°	279.2	279.2	267.7	200.3	156.8
75°	222.2	222.2	202.3	138.8	94.9
77.5°	171.3	169.3	154.8	103.6	68.9
80°	137.3	137.3	124.9	81.8	54.9
82.5°	107.4	107.4	96.9	63.9	41.0
85°	62.4	62.4	57.4	37.1	22.5
87.5°	22.8	24.3	24.8	17.1	15.2
90°	4.0	11.8	23.9	25.9	25.9
92.5°	48.6	171.8	339.6	163.5	113.6
95°	111.6	398.0	1199.7	613.5	424.5
97.5°	178.2	455.6	1881.7	1572.0	1185.4
100°	229.2	478.6	2098.5	2195.6	1821.5
102.5°	278.6	510.9	2170.3	2662.7	2355.6
105°	364.7	567.4	2180.2	3261.8	3061.1
107.5°	446.0	626.8	2087.4	3569.7	3621.5
110°	500.2	671.7	2002.9	3665.2	3854.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	557.6	716.6	1921.5	3644.1	3954.7
115°	643.7	787.9	1815.5	3508.0	3967.9
117.5°	722.2	857.5	1733.4	3290.7	3802.8
120°	773.2	903.8	1692.0	3134.8	3660.9
122.5°	817.9	946.9	1661.7	2975.4	3499.9
125°	878.9	1009.4	1630.2	2755.3	3242.4
127.5°	937.5	1066.1	1610.3	2561.2	2996.1
130°	972.5	1101.1	1602.3	2450.0	2831.9
132.5°	1007.6	1134.7	1594.3	2352.0	2702.8
135°	1058.2	1181.0	1584.4	2222.8	2517.0
137.5°	1106.5	1224.2	1579.2	2113.2	2354.8
140°	1139.9	1253.0	1574.4	2045.7	2263.9
142.5°	1175.0	1280.2	1571.2	1982.7	2166.7
145°	1223.6	1319.1	1564.4	1900.4	2040.7
147.5°	1276.2	1359.3	1557.6	1831.2	1941.5
150°	1311.3	1383.4	1554.5	1787.7	1879.3
152.5°	1343.2	1406.0	1552.9	1752.3	1826.7
155°	1389.0	1439.7	1550.5	1705.2	1759.7
157.5°	1429.3	1468.7	1550.9	1672.1	1708.7
160°	1454.8	1487.9	1552.5	1652.7	1680.0
162.5°	1477.1	1504.0	1554.1	1636.6	1656.1
165°	1506.6	1524.2	1556.5	1618.4	1626.2
167.5°	1530.5	1540.7	1558.4	1604.4	1607.5
170°	1546.5	1550.4	1558.4	1596.3	1596.3
172.5°	1556.1	1556.8	1560.0	1588.3	1588.3
175°	1566.4	1564.5	1558.4	1580.3	1576.4
177.5°	1570.8	1567.7	1559.6	1572.3	1569.2
180°	1564.4	1564.4	1564.4	1564.4	1564.4

(END OF REPORT)