

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: P519246

Luminaire Tested: **SQ4-WB-075U-125D-840-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519246
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-125D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

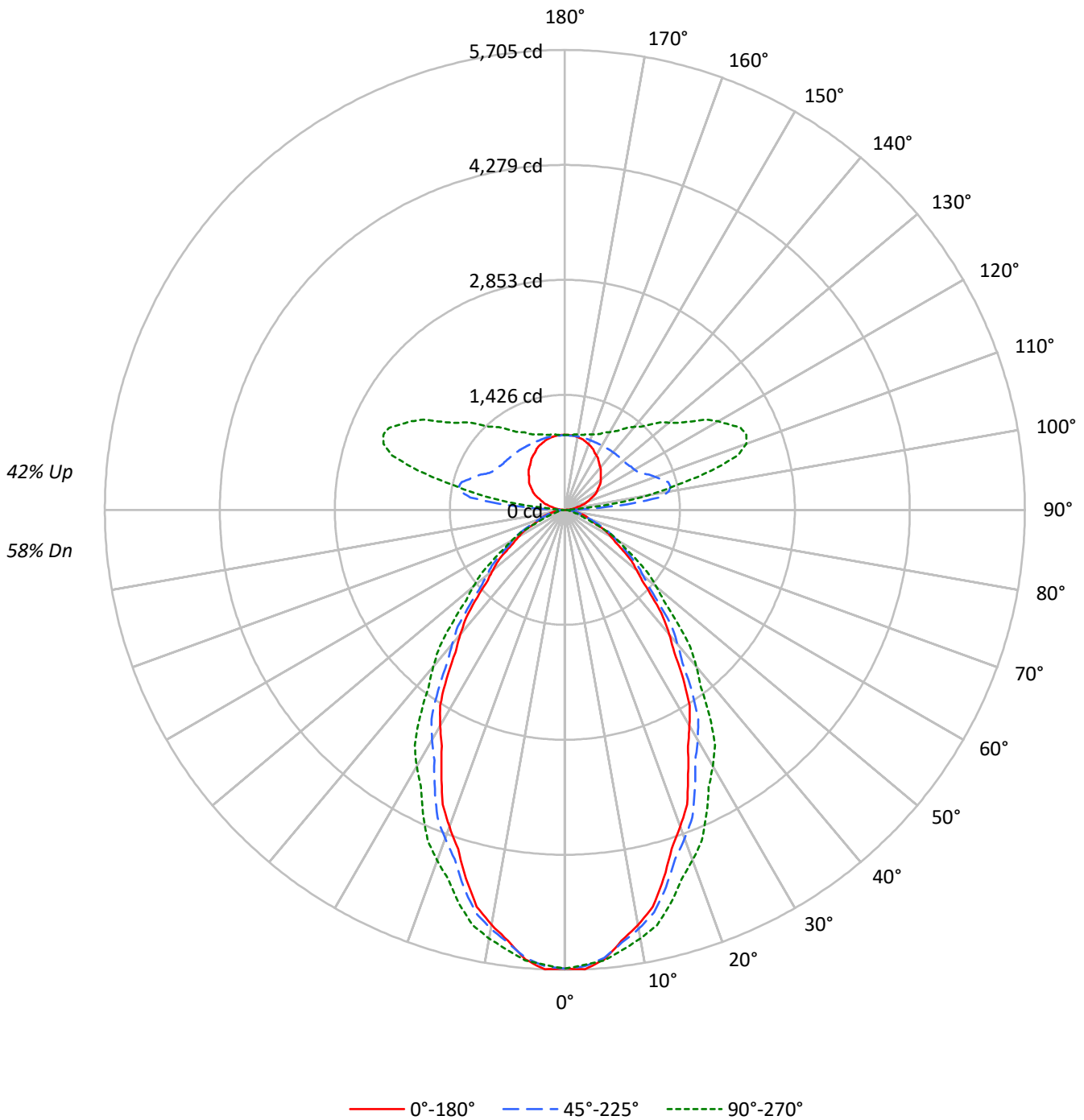
Lumens per Lamp: N/A
Luminaire Lumens: 14342.7 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 127.7
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	101	97	94	90	94	91	88	85	79	77	75	68	66	65	58	57	56	51
2	93	86	81	76	87	81	76	72	71	67	64	61	59	57	53	51	49	45
3	86	77	70	65	80	72	67	62	64	59	56	56	52	50	48	46	44	40
4	79	69	62	57	74	65	59	54	58	53	49	51	47	44	44	41	39	36
5	73	63	55	50	68	59	52	47	52	47	43	46	42	39	40	37	35	32
6	68	57	49	44	64	54	47	42	48	42	38	42	38	35	37	34	31	29
7	63	52	44	39	59	49	42	38	44	39	35	39	35	32	34	31	29	26
8	59	48	40	35	55	45	39	34	40	35	31	36	32	29	32	29	26	24
9	55	44	37	32	52	42	35	31	37	32	29	34	29	26	30	26	24	22
10	52	41	34	29	49	39	32	28	35	30	26	31	27	24	28	25	22	20

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	3.6
10°-20°	1357.7	9.5
20°-30°	1758.6	12.3
30°-40°	1722.1	12.0
40°-50°	1318.2	9.2
50°-60°	878.4	6.1
60°-70°	479.3	3.3
70°-80°	199.7	1.4
80°-90°	58.9	0.4
90°-100°	437.9	3.1
100°-110°	1204.6	8.4
110°-120°	1243.4	8.7
120°-130°	996.2	6.9
130°-140°	782.5	5.5
140°-150°	599.6	4.2
150°-160°	431.1	3.0
160°-170°	263.6	1.8
170°-180°	88.9	0.6
0°-30°	3638.3	25.4
0°-40°	5360.4	37.4
0°-60°	7556.9	52.7
0°-90°	8294.9	57.8
90°-120°	2885.9	20.1
90°-150°	5264.2	36.7
90°-180°	6048.0	42.2
0°-180°	14342.7	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°	2	8	14	18	18	7
95°	65	239	774	331	211	69
105°	215	331	1327	2022	1886	227
115°	381	464	1065	2120	2406	376
125°	525	599	966	1634	1914	469
135°	634	704	938	1321	1495	489
145°	733	783	924	1126	1213	460
155°	830	857	918	1012	1041	381
165°	897	908	922	960	966	253
175°	928	930	924	936	934	88
180°	928	928	928	928	928	

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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°	22.4	23.5	22.7	15.5	13.5
90°	2.0	7.8	13.8	17.8	17.8
92.5°	27.3	116.5	201.9	77.5	63.6
95°	65.2	239.0	774.3	331.1	211.3
97.5°	106.3	265.0	1181.6	910.4	642.3
100°	136.3	281.1	1309.6	1321.8	1078.5
102.5°	164.7	300.3	1342.7	1639.9	1416.6
105°	215.3	331.2	1327.3	2021.5	1886.3
107.5°	263.5	369.3	1251.9	2208.4	2248.6
110°	298.3	394.8	1195.0	2254.9	2394.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	329.9	423.3	1138.1	2224.9	2436.6
115°	381.2	464.3	1064.6	2120.0	2405.8
117.5°	430.2	506.7	1018.0	1972.7	2296.0
120°	460.2	533.6	997.5	1862.3	2196.4
122.5°	487.1	560.5	983.3	1765.5	2082.7
125°	525.4	598.8	965.9	1633.9	1914.0
127.5°	561.7	631.7	954.4	1524.1	1769.8
130°	580.7	652.2	948.1	1458.8	1682.9
132.5°	602.8	674.3	943.4	1401.5	1603.9
135°	634.0	703.6	938.2	1321.4	1495.2
137.5°	663.3	727.8	933.9	1256.7	1400.0
140°	685.4	745.3	932.3	1213.7	1343.1
142.5°	704.4	759.6	929.1	1175.4	1286.3
145°	732.8	783.0	924.4	1125.9	1212.8
147.5°	763.2	806.5	922.0	1082.0	1151.5
150°	782.2	820.8	920.4	1058.0	1112.0
152.5°	799.6	835.1	918.9	1037.2	1082.0
155°	829.6	856.6	918.5	1012.0	1040.9
157.5°	851.3	873.3	918.5	991.2	1011.3
160°	867.1	884.5	918.5	980.1	995.5
162.5°	879.8	894.0	920.1	970.5	982.9
165°	896.7	908.3	922.4	960.1	965.9
167.5°	908.6	917.5	924.4	951.3	952.8
170°	916.5	922.3	924.4	948.1	948.1
172.5°	922.8	925.5	924.4	943.3	941.8
175°	928.3	930.3	924.4	936.2	934.3
177.5°	929.9	929.9	923.6	933.0	929.9
180°	928.3	928.3	928.3	928.3	928.3

(END OF REPORT)