

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: P519257

Luminaire Tested: **SQ4-WB-075U-125D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519257
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-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

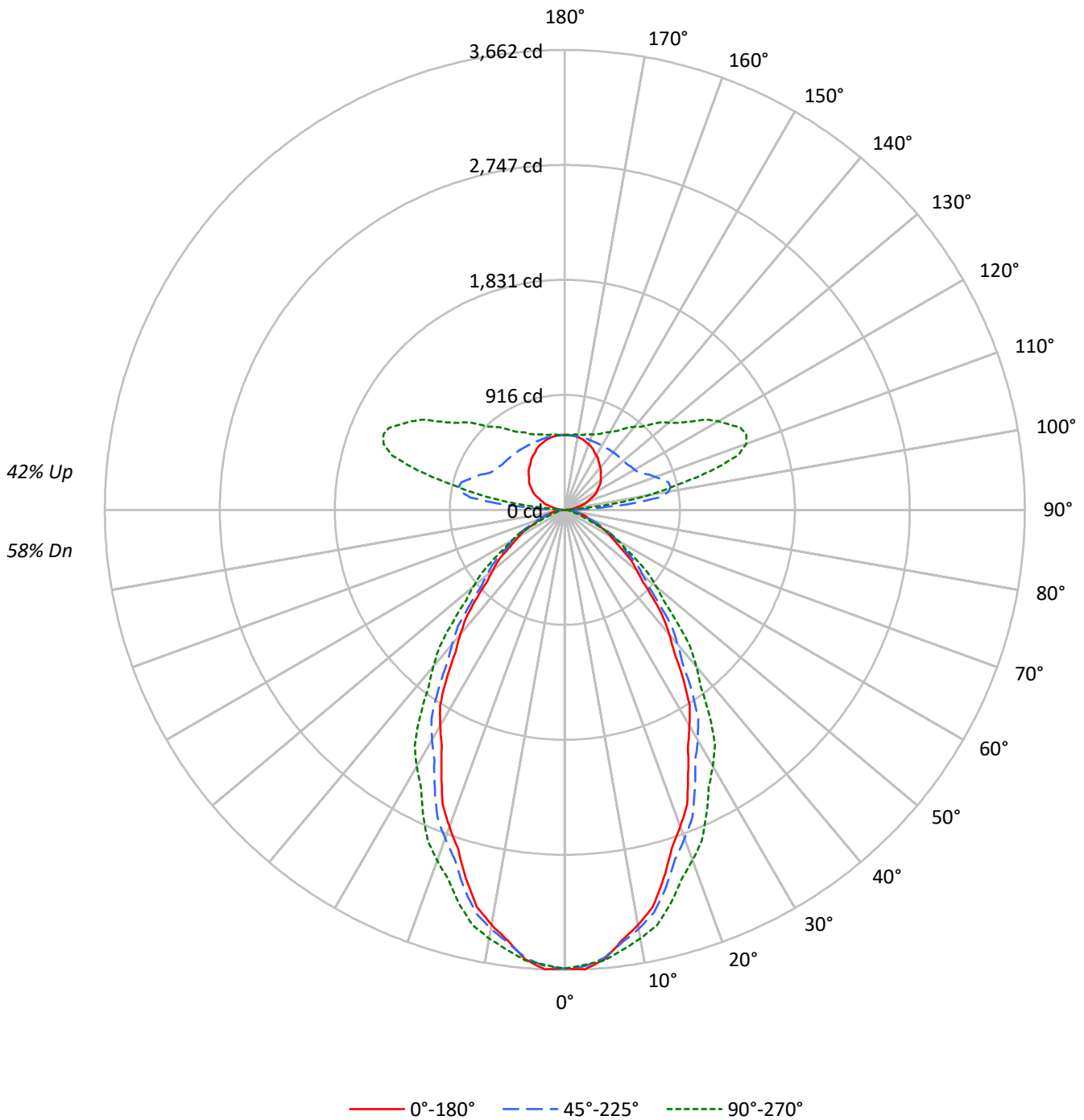
Lumens per Lamp: N/A
Luminaire Lumens: 9206.6 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 97.3
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	50	30	10	0	
RCR																						
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58				58
1	101	97	94	90	94	91	88	85	79	77	75	68	66	65	58	57	56	51				51
2	93	86	81	76	87	81	76	72	71	67	64	61	59	57	53	51	49	45				45
3	86	77	70	65	80	72	67	62	64	59	56	56	52	50	48	46	44	40				40
4	79	69	62	57	74	65	59	54	58	53	49	51	47	44	44	41	39	36				36
5	73	63	55	50	68	59	52	47	52	47	43	46	42	39	40	37	35	32				32
6	68	57	49	44	64	54	47	42	48	42	38	42	38	35	37	34	31	29				29
7	63	52	44	39	59	49	42	38	44	39	35	39	35	32	34	31	29	26				26
8	59	48	40	35	55	45	39	34	40	35	31	36	32	29	32	29	26	24				24
9	55	44	37	32	52	42	35	31	37	32	29	34	29	26	30	26	24	22				22
10	52	41	34	29	49	39	32	28	35	30	26	31	27	24	28	25	22	20				20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22468	22468	22468
5°	22188	22109	22237
10°	20963	21153	21644
15°	19352	19801	20689
20°	17573	18235	19441
25°	15762	16622	18112
30°	14093	15016	16735
35°	12324	13215	15105
40°	10373	11197	13076
45°	8561	9300	10917
50°	7147	7792	9095
55°	6067	6686	7512
60°	5186	5797	5995
65°	4129	4876	3873
70°	3661	3805	2363
75°	3391	3085	1447
80°	3124	2837	1250
85°	2830	2604	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.1	3.6
10°-20°	871.5	9.5
20°-30°	1128.8	12.3
30°-40°	1105.4	12.0
40°-50°	846.1	9.2
50°-60°	563.8	6.1
60°-70°	307.7	3.3
70°-80°	128.2	1.4
80°-90°	37.8	0.4
90°-100°	281.1	3.1
100°-110°	773.3	8.4
110°-120°	798.1	8.7
120°-130°	639.5	6.9
130°-140°	502.3	5.5
140°-150°	384.9	4.2
150°-160°	276.7	3.0
160°-170°	169.2	1.8
170°-180°	57.0	0.6
0°-30°	2335.4	25.4
0°-40°	3440.8	37.4
0°-60°	4850.8	52.7
0°-90°	5324.5	57.8
90°-120°	1852.5	20.1
90°-150°	3379.1	36.7
90°-180°	3882.0	42.2
0°-180°	9206.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3653	3653	3653	3653	3653	
5°	3594	3558	3581	3589	3602	334
15°	3039	3028	3110	3194	3249	849
25°	2322	2329	2449	2556	2669	1068
35°	1641	1649	1760	1878	2012	1020
45°	984	1003	1069	1150	1255	767
55°	566	589	624	647	700	513
65°	284	307	335	293	266	295
75°	143	143	130	89	61	152
85°	40	40	37	24	14	44
90°	1	5	9	11	11	5
95°	42	153	497	212	136	44
105°	138	213	852	1298	1211	146
115°	245	298	683	1361	1544	241
125°	337	384	620	1049	1229	301
135°	407	452	602	848	960	314
145°	470	503	593	723	778	295
155°	532	550	590	650	668	245
165°	576	583	592	616	620	162
175°	596	597	593	601	600	57
180°	596	596	596	596	596	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3652.9	3652.9	3652.9	3652.9	3652.9
2.5°	3661.9	3629.3	3637.5	3637.3	3627.3
5°	3593.6	3557.6	3580.8	3589.1	3601.6
7.5°	3460.3	3433.0	3475.3	3506.7	3532.1
10°	3356.4	3332.9	3386.8	3432.5	3465.4
12.5°	3235.9	3216.1	3283.0	3344.2	3387.2
15°	3039.0	3028.1	3109.6	3194.1	3249.0
17.5°	2828.4	2823.1	2916.6	3015.3	3085.5
20°	2684.8	2683.2	2785.8	2888.6	2970.1
22.5°	2539.9	2543.3	2651.1	2758.1	2850.9
25°	2322.5	2328.8	2449.2	2555.9	2668.8
27.5°	2121.5	2124.4	2248.8	2361.5	2481.9
30°	1984.3	1992.2	2114.2	2230.8	2356.2
32.5°	1847.1	1856.2	1975.7	2096.2	2224.1
35°	1641.3	1649.2	1759.9	1878.4	2011.6
37.5°	1429.1	1439.8	1538.1	1650.1	1781.1
40°	1291.9	1307.6	1394.5	1500.0	1628.5
42.5°	1159.8	1179.3	1259.8	1359.9	1475.9
45°	984.2	1003.0	1069.1	1150.0	1255.0
47.5°	832.8	854.5	905.3	975.0	1064.6
50°	746.9	767.3	814.3	865.9	950.5
52.5°	671.3	691.7	733.5	773.3	845.3
55°	565.8	589.3	623.5	647.2	700.5
57.5°	479.3	501.8	528.9	539.6	571.9
60°	421.6	446.6	471.2	470.0	487.3
62.5°	369.0	390.3	414.8	397.9	398.8
65°	283.7	307.2	335.0	292.7	266.1
67.5°	229.2	234.2	262.9	204.1	172.5
70°	203.6	203.6	211.6	158.1	131.4
72.5°	179.2	179.2	171.8	128.6	100.7
75°	142.7	142.7	129.8	89.1	60.9
77.5°	110.0	108.7	99.4	66.5	44.2
80°	88.2	88.2	80.1	52.5	35.3
82.5°	68.9	68.9	62.2	41.0	26.3
85°	40.1	40.1	36.9	23.8	14.4
87.5°	14.4	15.1	14.6	9.9	8.7
90°	1.3	5.0	8.9	11.4	11.4
92.5°	17.5	74.8	129.6	49.8	40.8
95°	41.8	153.4	497.0	212.5	135.7
97.5°	68.2	170.1	758.5	584.4	412.3
100°	87.5	180.5	840.6	848.5	692.3
102.5°	105.7	192.8	861.9	1052.6	909.3
105°	138.2	212.6	852.0	1297.6	1210.8
107.5°	169.1	237.1	803.6	1417.6	1443.4
110°	191.5	253.4	767.1	1447.4	1536.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	211.7	271.7	730.6	1428.2	1564.1
115°	244.7	298.0	683.4	1360.8	1544.3
117.5°	276.1	325.2	653.5	1266.3	1473.8
120°	295.4	342.5	640.3	1195.4	1409.9
122.5°	312.7	359.8	631.2	1133.3	1336.9
125°	337.3	384.4	620.0	1048.8	1228.6
127.5°	360.6	405.5	612.6	978.3	1136.0
130°	372.8	418.6	608.6	936.4	1080.2
132.5°	387.0	432.8	605.5	899.6	1029.5
135°	407.0	451.6	602.2	848.2	959.8
137.5°	425.8	467.2	599.5	806.7	898.7
140°	440.0	478.4	598.4	779.1	862.2
142.5°	452.1	487.6	596.4	754.5	825.6
145°	470.4	502.6	593.4	722.7	778.5
147.5°	489.9	517.7	591.9	694.5	739.2
150°	502.1	526.9	590.8	679.1	713.8
152.5°	513.2	536.1	589.8	665.8	694.5
155°	532.5	549.9	589.6	649.6	668.2
157.5°	546.5	560.6	589.6	636.3	649.2
160°	556.6	567.8	589.6	629.1	639.0
162.5°	564.7	573.9	590.6	623.0	630.9
165°	575.6	583.1	592.1	616.3	620.0
167.5°	583.2	588.9	593.4	610.6	611.6
170°	588.3	592.0	593.4	608.6	608.6
172.5°	592.4	594.1	593.4	605.5	604.5
175°	595.9	597.1	593.4	601.0	599.7
177.5°	596.9	596.9	592.9	598.9	596.9
180°	595.9	595.9	595.9	595.9	595.9

(END OF REPORT)