

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P234646

Luminaire Tested: **CTA-F-7525-40L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-2)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-7525-40L830-UNV-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 LUMENS, 75% UPLIGHT, 25% DOWNLIGHT
Light Source: (672) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7679.4 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: Semi-Indirect

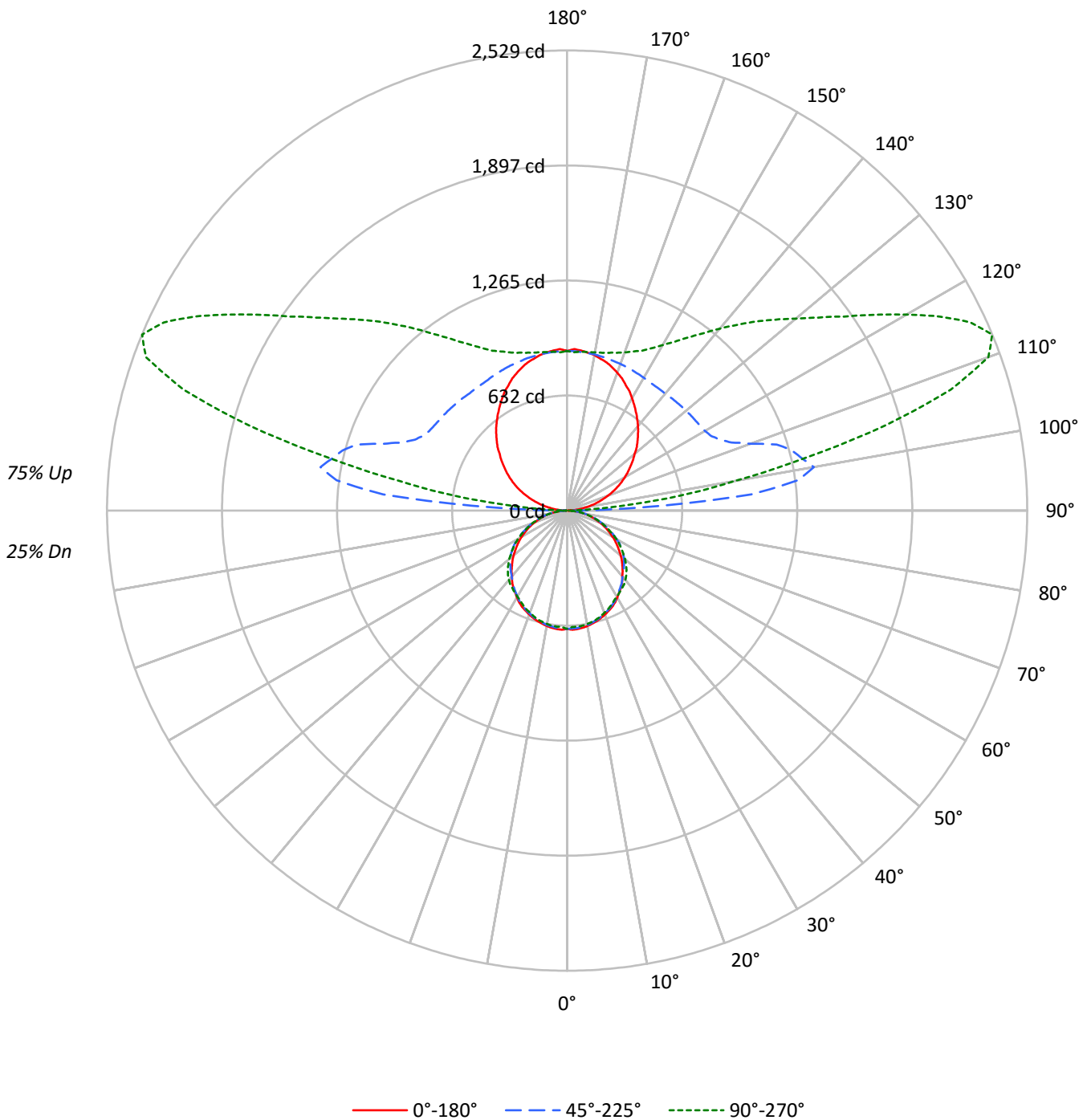
Input Watts (W): 57.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	33	33	33	25
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	29	28	28	21
2	84	76	70	65	74	68	63	59	53	49	46	39	36	34	25	24	23	17
3	76	67	60	54	67	60	54	49	46	42	39	34	31	29	22	21	19	14
4	69	59	51	45	62	53	46	41	41	36	33	30	27	25	20	18	17	12
5	64	52	44	39	56	47	40	35	36	32	28	27	24	21	18	16	14	10
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	12	9
7	54	42	34	29	48	38	31	26	29	25	21	22	18	16	15	13	11	8
8	50	38	30	25	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2099	2099	2099
5°	2119	2101	2076
10°	2112	2093	2074
15°	2102	2083	2070
20°	2088	2068	2055
25°	2083	2055	2042
30°	2058	2036	2036
35°	2032	2016	2062
40°	1986	1994	2100
45°	1958	2011	2107
50°	1932	2048	2087
55°	1894	2057	2046
60°	1863	2025	2012
65°	1837	1983	1954
70°	1798	1924	1906
75°	1752	1871	1848
80°	1716	1824	1789
85°	1567	1782	1638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	0.8
10°-20°	175.6	2.3
20°-30°	265.7	3.5
30°-40°	322.3	4.2
40°-50°	341.5	4.4
50°-60°	316.5	4.1
60°-70°	250.6	3.3
70°-80°	156.6	2.0
80°-90°	53.1	0.7
90°-100°	465.8	6.1
100°-110°	1181.6	15.4
110°-120°	1179.8	15.4
120°-130°	913.1	11.9
130°-140°	721.2	9.4
140°-150°	549.6	7.2
150°-160°	396.2	5.2
160°-170°	245.0	3.2
170°-180°	83.5	1.1
0°-30°	502.7	6.5
0°-40°	825.1	10.7
0°-60°	1483.1	19.3
0°-90°	1943.5	25.3
90°-120°	2827.3	36.8
90°-150°	5011.3	65.3
90°-180°	5736.0	74.7
0°-180°	7679.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	650	650	650	650	650	
5°	654	646	648	644	640	62
15°	629	621	623	621	619	177
25°	585	577	577	575	573	269
35°	515	512	512	519	523	322
45°	429	427	440	458	462	331
55°	336	336	365	364	364	301
65°	240	250	260	256	256	238
75°	140	150	150	148	148	149
85°	42	48	48	48	44	46
90°	4	6	6	6	4	7
95°	48	175	1015	464	298	52
105°	173	277	1279	2081	1815	183
115°	304	379	923	2086	2446	300
125°	425	492	862	1548	1860	381
135°	548	598	846	1267	1469	423
145°	660	692	838	1048	1162	413
155°	762	775	850	925	969	351
165°	842	838	865	888	898	237
175°	883	873	875	875	877	84
180°	877	877	877	877	877	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	650.0	650.0	650.0	650.0	650.0
2.5°	655.8	648.1	648.1	646.2	640.4
5°	653.8	646.2	648.1	644.2	640.4
7.5°	650.0	642.3	642.3	640.4	638.5
10°	644.2	638.5	638.5	636.5	632.7
12.5°	636.5	630.8	630.8	628.8	626.9
15°	628.8	621.2	623.1	621.2	619.2
17.5°	619.2	611.5	613.5	611.5	609.6
20°	607.7	601.9	601.9	600.0	598.1
22.5°	596.2	590.4	590.4	588.5	586.5
25°	584.6	576.9	576.9	575.0	573.1
27.5°	569.2	561.5	563.5	559.6	557.7
30°	551.9	546.2	546.2	542.3	546.2
32.5°	532.7	528.8	528.8	530.8	534.6
35°	515.4	511.5	511.5	519.2	523.1
37.5°	496.2	490.4	494.2	505.8	513.5
40°	471.2	467.3	473.1	492.3	498.1
42.5°	451.9	448.1	457.7	476.9	480.8
45°	428.8	426.9	440.4	457.7	461.5
47.5°	407.7	405.8	425.0	438.5	438.5
50°	384.6	382.7	407.7	415.4	415.4
52.5°	359.6	359.6	388.5	390.4	388.5
55°	336.5	336.5	365.4	363.5	363.5
57.5°	313.5	315.4	342.3	336.5	338.5
60°	288.5	294.2	313.5	309.6	311.5
62.5°	265.4	273.1	286.5	282.7	282.7
65°	240.4	250.0	259.6	255.8	255.8
67.5°	215.4	226.9	230.8	228.8	228.8
70°	190.4	203.8	203.8	201.9	201.9
72.5°	165.4	176.9	176.9	175.0	175.0
75°	140.4	150.0	150.0	148.1	148.1
77.5°	117.3	123.1	123.1	123.1	121.2
80°	92.3	96.2	98.1	96.2	96.2
82.5°	69.2	71.2	73.1	73.1	69.2
85°	42.3	48.1	48.1	48.1	44.2
87.5°	23.1	26.9	26.9	26.9	23.1
90°	3.8	5.8	5.8	5.8	3.8
92.5°	23.1	113.5	401.9	107.7	65.4
95°	48.1	175.0	1015.4	463.5	298.1
97.5°	76.9	207.7	1278.8	817.3	625.0
100°	107.7	263.5	1376.9	1215.4	934.6
102.5°	140.4	275.0	1323.1	1680.8	1344.2
105°	173.1	276.9	1278.8	2080.8	1815.4
107.5°	205.8	286.5	1207.7	2305.8	2211.5
110°	238.5	315.4	1073.1	2357.7	2463.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	271.2	348.1	976.9	2253.8	2528.8
115°	303.8	378.8	923.1	2086.5	2446.2
117.5°	334.6	407.7	890.4	1915.4	2309.6
120°	365.4	436.5	875.0	1769.2	2153.8
122.5°	396.2	463.5	867.3	1648.1	2001.9
125°	425.0	492.3	861.5	1548.1	1859.6
127.5°	455.8	519.2	857.7	1469.2	1742.3
130°	484.6	546.2	853.8	1396.2	1640.4
132.5°	519.2	573.1	850.0	1330.8	1553.8
135°	548.1	598.1	846.2	1267.3	1469.2
137.5°	576.9	623.1	842.3	1205.8	1384.6
140°	605.8	646.2	838.5	1146.2	1305.8
142.5°	632.7	669.2	838.5	1094.2	1228.8
145°	659.6	692.3	838.5	1048.1	1161.5
147.5°	686.5	715.4	838.5	1007.7	1100.0
150°	713.5	734.6	842.3	975.0	1050.0
152.5°	740.4	755.8	846.2	946.2	1005.8
155°	761.5	775.0	850.0	925.0	969.2
157.5°	786.5	794.2	853.8	911.5	946.2
160°	805.8	811.5	857.7	901.9	925.0
162.5°	825.0	825.0	859.6	894.2	909.6
165°	842.3	838.5	865.4	888.5	898.1
167.5°	853.8	850.0	867.3	880.8	888.5
170°	867.3	861.5	871.2	878.8	882.7
172.5°	875.0	867.3	873.1	876.9	878.8
175°	882.7	873.1	875.0	875.0	876.9
177.5°	888.5	876.9	876.9	876.9	871.2
180°	876.9	876.9	876.9	876.9	876.9

(END OF REPORT)