

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: P234648

Luminaire Tested: **CTA-F-7525-40L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234648
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-7525-40L840-UNV-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 LUMENS, 75% UPLIGHT, 25% DOWNLIGHT
Light Source: (672) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8140.2 lumens
Efficiency: N/A
Efficacy: 141.8 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

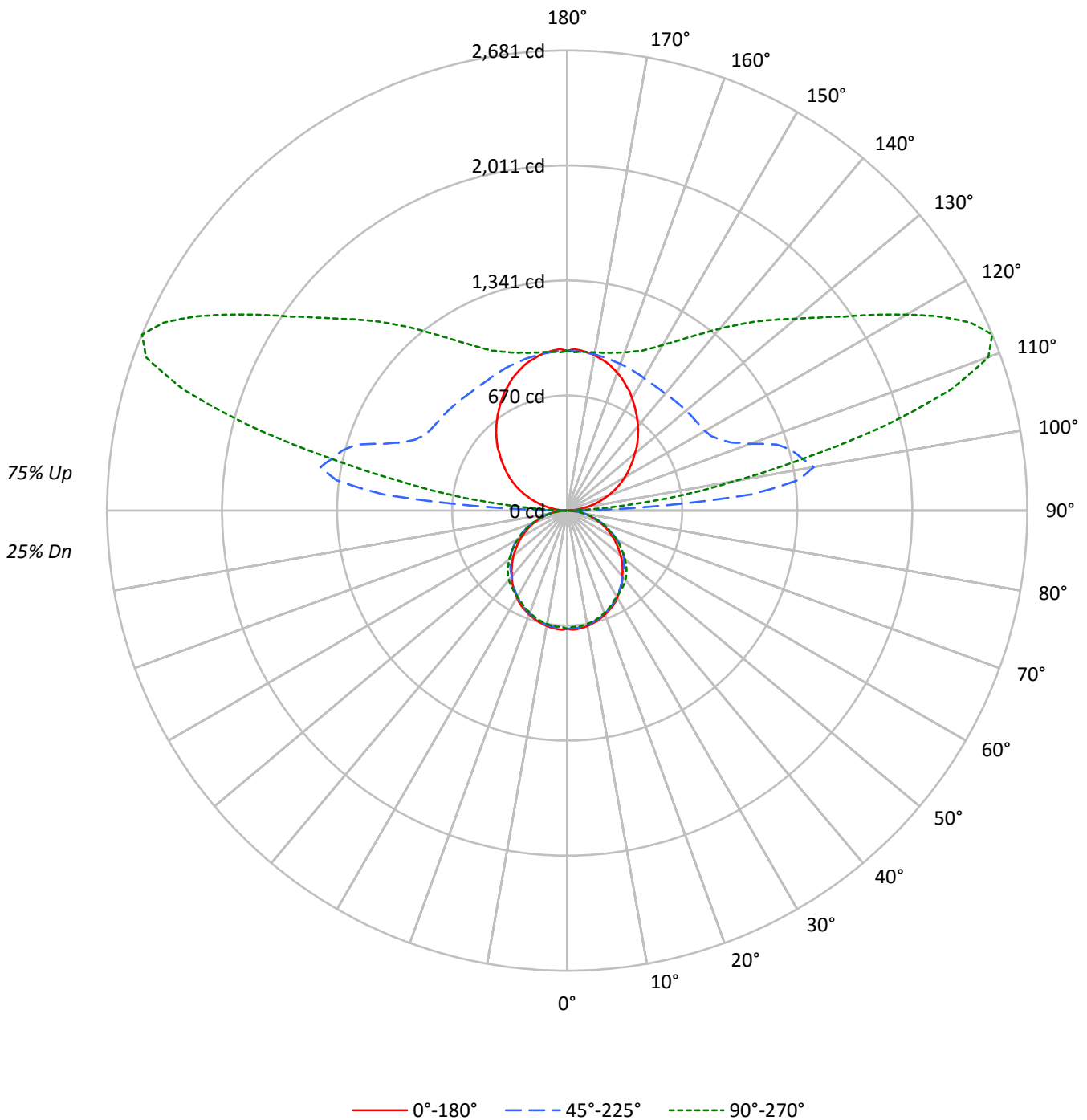
Input Watts (W): 57.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2225	2225	2225
5°	2247	2227	2200
10°	2239	2219	2199
15°	2228	2208	2194
20°	2214	2192	2179
25°	2208	2179	2164
30°	2181	2158	2158
35°	2153	2137	2186
40°	2105	2114	2226
45°	2076	2132	2234
50°	2048	2171	2212
55°	2008	2180	2169
60°	1975	2146	2132
65°	1947	2103	2071
70°	1905	2040	2020
75°	1856	1984	1959
80°	1819	1934	1895
85°	1660	1889	1738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	0.8
10°-20°	186.2	2.3
20°-30°	281.7	3.5
30°-40°	341.6	4.2
40°-50°	362.0	4.4
50°-60°	335.5	4.1
60°-70°	265.6	3.3
70°-80°	166.0	2.0
80°-90°	56.3	0.7
90°-100°	493.8	6.1
100°-110°	1252.5	15.4
110°-120°	1250.6	15.4
120°-130°	967.9	11.9
130°-140°	764.5	9.4
140°-150°	582.6	7.2
150°-160°	420.0	5.2
160°-170°	259.7	3.2
170°-180°	88.5	1.1
0°-30°	532.9	6.5
0°-40°	874.5	10.7
0°-60°	1572.1	19.3
0°-90°	2060.1	25.3
90°-120°	2996.9	36.8
90°-150°	5311.9	65.3
90°-180°	6080.0	74.7
0°-180°	8140.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	689	689	689	689	689	
5°	693	685	687	683	679	66
15°	667	658	660	658	656	188
25°	620	612	612	610	608	285
35°	546	542	542	550	554	341
45°	455	452	467	485	489	351
55°	357	357	387	385	385	319
65°	255	265	275	271	271	252
75°	149	159	159	157	157	158
85°	45	51	51	51	47	49
90°	4	6	6	6	4	8
95°	51	186	1076	491	316	55
105°	184	294	1356	2206	1924	194
115°	322	402	978	2212	2593	318
125°	450	522	913	1641	1971	404
135°	581	634	897	1343	1557	448
145°	699	734	889	1111	1231	438
155°	807	822	901	980	1027	373
165°	893	889	917	942	952	251
175°	936	926	928	928	930	89
180°	930	930	930	930	930	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	689.0	689.0	689.0	689.0	689.0
2.5°	695.1	687.0	687.0	684.9	678.8
5°	693.1	684.9	687.0	682.9	678.8
7.5°	689.0	680.8	680.8	678.8	676.8
10°	682.9	676.8	676.8	674.7	670.7
12.5°	674.7	668.6	668.6	666.6	664.5
15°	666.6	658.4	660.5	658.4	656.4
17.5°	656.4	648.2	650.3	648.2	646.2
20°	644.2	638.0	638.0	636.0	634.0
22.5°	631.9	625.8	625.8	623.8	621.7
25°	619.7	611.5	611.5	609.5	607.5
27.5°	603.4	595.2	597.3	593.2	591.2
30°	585.0	578.9	578.9	574.8	578.9
32.5°	564.7	560.6	560.6	562.6	566.7
35°	546.3	542.2	542.2	550.4	554.5
37.5°	525.9	519.8	523.9	536.1	544.3
40°	499.4	495.3	501.5	521.8	528.0
42.5°	479.0	475.0	485.2	505.5	509.6
45°	454.6	452.5	466.8	485.2	489.2
47.5°	432.2	430.1	450.5	464.8	464.8
50°	407.7	405.7	432.2	440.3	440.3
52.5°	381.2	381.2	411.8	413.8	411.8
55°	356.7	356.7	387.3	385.3	385.3
57.5°	332.3	334.3	362.8	356.7	358.8
60°	305.8	311.9	332.3	328.2	330.2
62.5°	281.3	289.5	303.7	299.7	299.7
65°	254.8	265.0	275.2	271.1	271.1
67.5°	228.3	240.5	244.6	242.6	242.6
70°	201.8	216.1	216.1	214.0	214.0
72.5°	175.3	187.5	187.5	185.5	185.5
75°	148.8	159.0	159.0	157.0	157.0
77.5°	124.3	130.5	130.5	130.5	128.4
80°	97.8	101.9	104.0	101.9	101.9
82.5°	73.4	75.4	77.5	77.5	73.4
85°	44.8	51.0	51.0	51.0	46.9
87.5°	24.5	28.5	28.5	28.5	24.5
90°	4.1	6.1	6.1	6.1	4.1
92.5°	24.5	120.3	426.0	114.2	69.3
95°	51.0	185.5	1076.3	491.3	316.0
97.5°	81.5	220.2	1355.6	866.3	662.5
100°	114.2	279.3	1459.5	1288.3	990.7
102.5°	148.8	291.5	1402.5	1781.6	1424.9
105°	183.5	293.5	1355.6	2205.6	1924.3
107.5°	218.1	303.7	1280.2	2444.1	2344.2
110°	252.8	334.3	1137.5	2499.2	2611.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	287.4	369.0	1035.5	2389.1	2680.6
115°	322.1	401.6	978.5	2211.7	2592.9
117.5°	354.7	432.2	943.8	2030.3	2448.2
120°	387.3	462.7	927.5	1875.4	2283.1
122.5°	419.9	491.3	919.3	1747.0	2122.0
125°	450.5	521.8	913.2	1641.0	1971.2
127.5°	483.1	550.4	909.2	1557.4	1846.8
130°	513.7	578.9	905.1	1479.9	1738.8
132.5°	550.4	607.5	901.0	1410.6	1647.1
135°	581.0	634.0	896.9	1343.3	1557.4
137.5°	611.5	660.5	892.8	1278.1	1467.7
140°	642.1	684.9	888.8	1214.9	1384.1
142.5°	670.7	709.4	888.8	1159.9	1302.6
145°	699.2	733.8	888.8	1111.0	1231.2
147.5°	727.7	758.3	888.8	1068.2	1166.0
150°	756.3	778.7	892.8	1033.5	1113.0
152.5°	784.8	801.1	896.9	1002.9	1066.1
155°	807.2	821.5	901.0	980.5	1027.4
157.5°	833.7	841.9	905.1	966.2	1002.9
160°	854.1	860.2	909.2	956.0	980.5
162.5°	874.5	874.5	911.2	947.9	964.2
165°	892.8	888.8	917.3	941.8	952.0
167.5°	905.1	901.0	919.3	933.6	941.8
170°	919.3	913.2	923.4	931.6	935.7
172.5°	927.5	919.3	925.5	929.5	931.6
175°	935.7	925.5	927.5	927.5	929.5
177.5°	941.8	929.5	929.5	929.5	923.4
180°	929.5	929.5	929.5	929.5	929.5

(END OF REPORT)