

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: P234645

Luminaire Tested: **CTA-F-7525-40L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234645
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-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 LUMENS, 75% UPLIGHT, 25% DOWNLIGHT
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4070.1 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Semi-Indirect

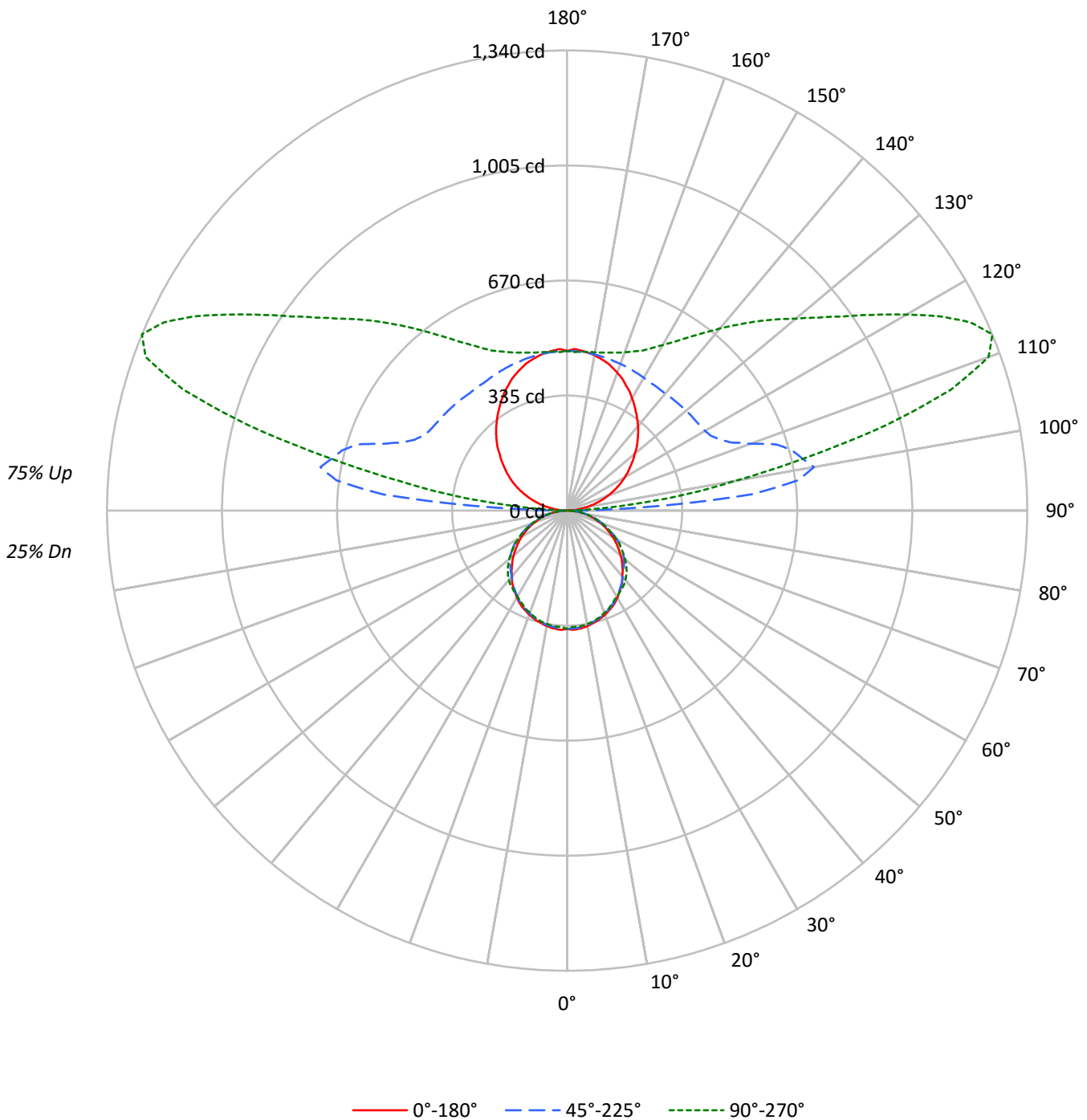
Input Watts (W): 29.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2246	2227	2200
10°	2239	2219	2199
15°	2228	2208	2194
20°	2214	2192	2179
25°	2207	2179	2164
30°	2181	2159	2159
35°	2154	2137	2185
40°	2105	2113	2226
45°	2076	2132	2234
50°	2047	2171	2212
55°	2009	2181	2168
60°	1975	2145	2132
65°	1947	2103	2072
70°	1905	2039	2020
75°	1856	1984	1959
80°	1819	1934	1897
85°	1660	1889	1734



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.5	0.8
10°-20°	93.1	2.3
20°-30°	140.8	3.5
30°-40°	170.8	4.2
40°-50°	181.0	4.4
50°-60°	167.8	4.1
60°-70°	132.8	3.3
70°-80°	83.0	2.0
80°-90°	28.2	0.7
90°-100°	246.9	6.1
100°-110°	626.3	15.4
110°-120°	625.3	15.4
120°-130°	484.0	11.9
130°-140°	382.2	9.4
140°-150°	291.3	7.2
150°-160°	210.0	5.2
160°-170°	129.9	3.2
170°-180°	44.2	1.1
0°-30°	266.5	6.5
0°-40°	437.3	10.7
0°-60°	786.1	19.3
0°-90°	1030.0	25.3
90°-120°	1498.5	36.8
90°-150°	2656.0	65.3
90°-180°	3040.0	74.7
0°-180°	4070.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	344	344	344	344	344	
5°	346	342	344	341	339	33
15°	333	329	330	329	328	94
25°	310	306	306	305	304	142
35°	273	271	271	275	277	171
45°	227	226	233	243	245	176
55°	178	178	194	193	193	160
65°	127	132	138	136	136	126
75°	74	80	80	78	78	79
85°	22	26	26	26	23	24
90°	2	3	3	3	2	4
95°	26	93	538	246	158	27
105°	92	147	678	1103	962	97
115°	161	201	489	1106	1296	159
125°	225	261	457	820	986	202
135°	290	317	448	672	779	224
145°	350	367	444	556	616	219
155°	404	411	450	490	514	186
165°	446	444	459	471	476	126
175°	468	463	464	464	465	44
180°	465	465	465	465	465	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	344.5	344.5	344.5	344.5	344.5
2.5°	347.6	343.5	343.5	342.5	339.4
5°	346.5	342.5	343.5	341.4	339.4
7.5°	344.5	340.4	340.4	339.4	338.4
10°	341.4	338.4	338.4	337.4	335.3
12.5°	337.4	334.3	334.3	333.3	332.3
15°	333.3	329.2	330.2	329.2	328.2
17.5°	328.2	324.1	325.1	324.1	323.1
20°	322.1	319.0	319.0	318.0	317.0
22.5°	316.0	312.9	312.9	311.9	310.9
25°	309.8	305.8	305.8	304.7	303.7
27.5°	301.7	297.6	298.6	296.6	295.6
30°	292.5	289.5	289.5	287.4	289.5
32.5°	282.3	280.3	280.3	281.3	283.3
35°	273.2	271.1	271.1	275.2	277.2
37.5°	263.0	259.9	261.9	268.1	272.1
40°	249.7	247.7	250.7	260.9	264.0
42.5°	239.5	237.5	242.6	252.8	254.8
45°	227.3	226.3	233.4	242.6	244.6
47.5°	216.1	215.1	225.2	232.4	232.4
50°	203.8	202.8	216.1	220.2	220.2
52.5°	190.6	190.6	205.9	206.9	205.9
55°	178.4	178.4	193.7	192.6	192.6
57.5°	166.1	167.2	181.4	178.4	179.4
60°	152.9	155.9	166.1	164.1	165.1
62.5°	140.7	144.7	151.9	149.8	149.8
65°	127.4	132.5	137.6	135.6	135.6
67.5°	114.2	120.3	122.3	121.3	121.3
70°	100.9	108.0	108.0	107.0	107.0
72.5°	87.7	93.8	93.8	92.7	92.7
75°	74.4	79.5	79.5	78.5	78.5
77.5°	62.2	65.2	65.2	65.2	64.2
80°	48.9	51.0	52.0	51.0	51.0
82.5°	36.7	37.7	38.7	38.7	36.7
85°	22.4	25.5	25.5	25.5	23.4
87.5°	12.2	14.3	14.3	14.3	12.2
90°	2.0	3.1	3.1	3.1	2.0
92.5°	12.2	60.1	213.0	57.1	34.7
95°	25.5	92.7	538.2	245.6	158.0
97.5°	40.8	110.1	677.8	433.2	331.2
100°	57.1	139.6	729.8	644.2	495.3
102.5°	74.4	145.7	701.2	890.8	712.4
105°	91.7	146.8	677.8	1102.8	962.2
107.5°	109.1	151.9	640.1	1222.1	1172.1
110°	126.4	167.2	568.7	1249.6	1305.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	143.7	184.5	517.8	1194.5	1340.3
115°	161.0	200.8	489.2	1105.9	1296.5
117.5°	177.3	216.1	471.9	1015.2	1224.1
120°	193.7	231.4	463.7	937.7	1141.5
122.5°	210.0	245.6	459.7	873.5	1061.0
125°	225.2	260.9	456.6	820.5	985.6
127.5°	241.6	275.2	454.6	778.7	923.4
130°	256.8	289.5	452.5	740.0	869.4
132.5°	275.2	303.7	450.5	705.3	823.5
135°	290.5	317.0	448.5	671.7	778.7
137.5°	305.8	330.2	446.4	639.1	733.8
140°	321.1	342.5	444.4	607.5	692.1
142.5°	335.3	354.7	444.4	579.9	651.3
145°	349.6	366.9	444.4	555.5	615.6
147.5°	363.9	379.2	444.4	534.1	583.0
150°	378.1	389.3	446.4	516.7	556.5
152.5°	392.4	400.6	448.5	501.5	533.1
155°	403.6	410.7	450.5	490.2	513.7
157.5°	416.9	420.9	452.5	483.1	501.5
160°	427.1	430.1	454.6	478.0	490.2
162.5°	437.2	437.2	455.6	473.9	482.1
165°	446.4	444.4	458.7	470.9	476.0
167.5°	452.5	450.5	459.7	466.8	470.9
170°	459.7	456.6	461.7	465.8	467.8
172.5°	463.7	459.7	462.7	464.8	465.8
175°	467.8	462.7	463.7	463.7	464.8
177.5°	470.9	464.8	464.8	464.8	461.7
180°	464.8	464.8	464.8	464.8	464.8

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