

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: P234644

Luminaire Tested: **CTA-F-7525-40L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234644
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-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 LUMENS, 75% UPLIGHT, 25% DOWNLIGHT
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3839.7 lumens
Efficiency: N/A
Efficacy: 128.8 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

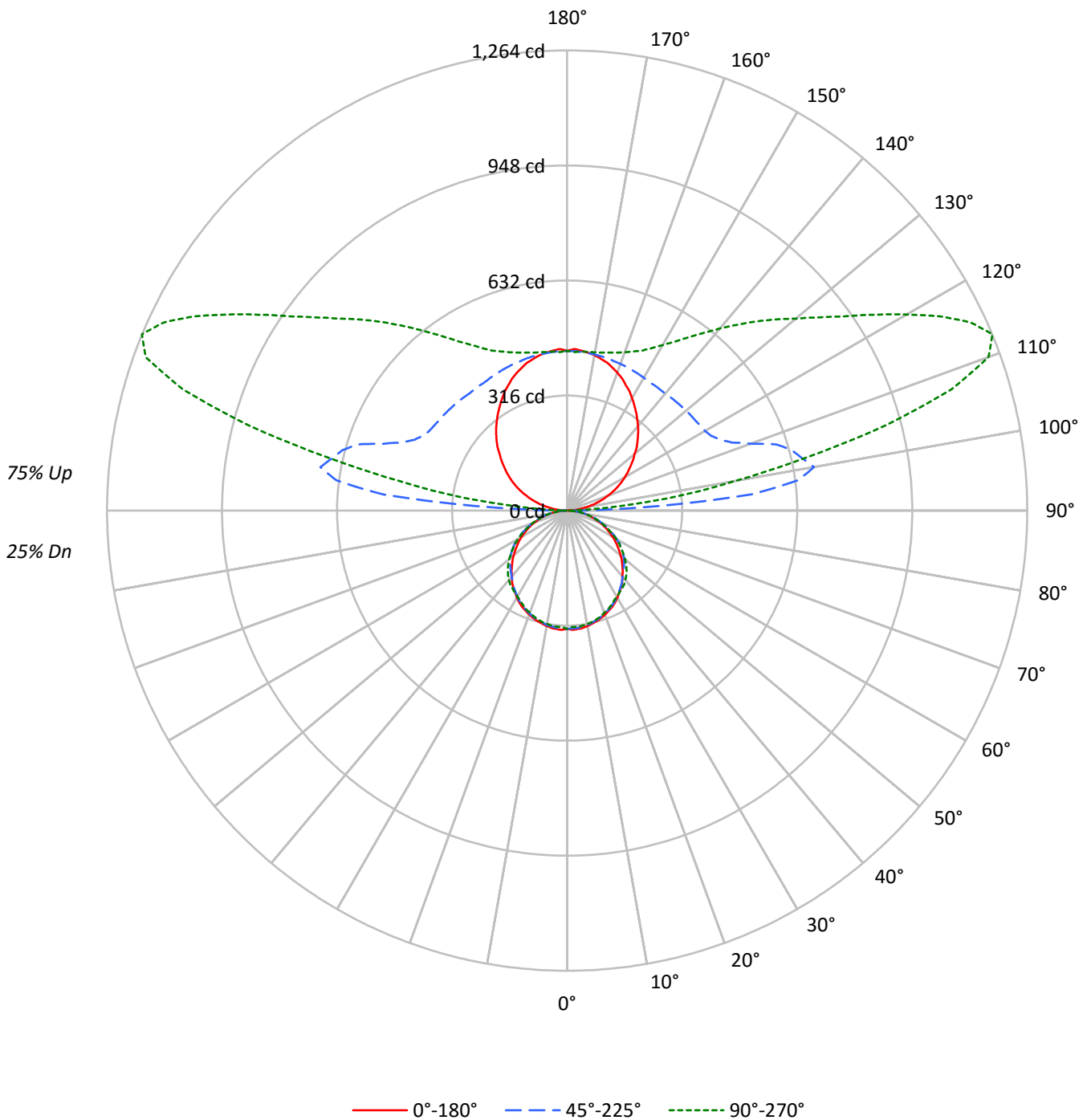
Input Watts (W): 29.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2099	2099	2099
5°	2119	2100	2076
10°	2112	2093	2074
15°	2102	2083	2070
20°	2088	2069	2055
25°	2083	2056	2041
30°	2058	2036	2036
35°	2032	2017	2062
40°	1986	1994	2099
45°	1958	2011	2108
50°	1932	2047	2087
55°	1895	2057	2046
60°	1862	2024	2012
65°	1837	1983	1954
70°	1798	1924	1907
75°	1752	1871	1846
80°	1718	1822	1789
85°	1571	1778	1638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.7	0.8
10°-20°	87.8	2.3
20°-30°	132.9	3.5
30°-40°	161.2	4.2
40°-50°	170.8	4.4
50°-60°	158.3	4.1
60°-70°	125.3	3.3
70°-80°	78.3	2.0
80°-90°	26.6	0.7
90°-100°	232.9	6.1
100°-110°	590.8	15.4
110°-120°	589.9	15.4
120°-130°	456.6	11.9
130°-140°	360.6	9.4
140°-150°	274.8	7.2
150°-160°	198.1	5.2
160°-170°	122.5	3.2
170°-180°	41.7	1.1
0°-30°	251.4	6.5
0°-40°	412.5	10.7
0°-60°	741.6	19.3
0°-90°	971.7	25.3
90°-120°	1413.6	36.8
90°-150°	2505.6	65.3
90°-180°	2868.0	74.7
0°-180°	3839.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	325	325	325	325	325	
5°	327	323	324	322	320	31
15°	314	311	312	311	310	89
25°	292	288	288	288	286	134
35°	258	256	256	260	262	161
45°	214	214	220	229	231	166
55°	168	168	183	182	182	151
65°	120	125	130	128	128	119
75°	70	75	75	74	74	74
85°	21	24	24	24	22	23
90°	2	3	3	3	2	4
95°	24	88	508	232	149	26
105°	86	138	639	1040	908	91
115°	152	189	462	1043	1223	150
125°	212	246	431	774	930	190
135°	274	299	423	634	735	211
145°	330	346	419	524	581	207
155°	381	388	425	462	485	176
165°	421	419	433	444	449	119
175°	441	436	438	438	438	42
180°	438	438	438	438	438	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	325.0	325.0	325.0	325.0	325.0
2.5°	327.9	324.0	324.0	323.1	320.2
5°	326.9	323.1	324.0	322.1	320.2
7.5°	325.0	321.2	321.2	320.2	319.2
10°	322.1	319.2	319.2	318.3	316.3
12.5°	318.3	315.4	315.4	314.4	313.5
15°	314.4	310.6	311.5	310.6	309.6
17.5°	309.6	305.8	306.7	305.8	304.8
20°	303.8	301.0	301.0	300.0	299.0
22.5°	298.1	295.2	295.2	294.2	293.3
25°	292.3	288.5	288.5	287.5	286.5
27.5°	284.6	280.8	281.7	279.8	278.8
30°	276.0	273.1	273.1	271.2	273.1
32.5°	266.3	264.4	264.4	265.4	267.3
35°	257.7	255.8	255.8	259.6	261.5
37.5°	248.1	245.2	247.1	252.9	256.7
40°	235.6	233.7	236.5	246.2	249.0
42.5°	226.0	224.0	228.8	238.5	240.4
45°	214.4	213.5	220.2	228.8	230.8
47.5°	203.8	202.9	212.5	219.2	219.2
50°	192.3	191.3	203.8	207.7	207.7
52.5°	179.8	179.8	194.2	195.2	194.2
55°	168.3	168.3	182.7	181.7	181.7
57.5°	156.7	157.7	171.2	168.3	169.2
60°	144.2	147.1	156.7	154.8	155.8
62.5°	132.7	136.5	143.3	141.3	141.3
65°	120.2	125.0	129.8	127.9	127.9
67.5°	107.7	113.5	115.4	114.4	114.4
70°	95.2	101.9	101.9	101.0	101.0
72.5°	82.7	88.5	88.5	87.5	87.5
75°	70.2	75.0	75.0	74.0	74.0
77.5°	58.7	61.5	61.5	61.5	60.6
80°	46.2	48.1	49.0	48.1	48.1
82.5°	34.6	35.6	36.5	36.5	34.6
85°	21.2	24.0	24.0	24.0	22.1
87.5°	11.5	13.5	13.5	13.5	11.5
90°	1.9	2.9	2.9	2.9	1.9
92.5°	11.5	56.7	201.0	53.8	32.7
95°	24.0	87.5	507.7	231.7	149.0
97.5°	38.5	103.8	639.4	408.7	312.5
100°	53.8	131.7	688.5	607.7	467.3
102.5°	70.2	137.5	661.5	840.4	672.1
105°	86.5	138.5	639.4	1040.4	907.7
107.5°	102.9	143.3	603.8	1152.9	1105.8
110°	119.2	157.7	536.5	1178.8	1231.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.6	174.0	488.5	1126.9	1264.4
115°	151.9	189.4	461.5	1043.3	1223.1
117.5°	167.3	203.8	445.2	957.7	1154.8
120°	182.7	218.3	437.5	884.6	1076.9
122.5°	198.1	231.7	433.7	824.0	1001.0
125°	212.5	246.2	430.8	774.0	929.8
127.5°	227.9	259.6	428.8	734.6	871.2
130°	242.3	273.1	426.9	698.1	820.2
132.5°	259.6	286.5	425.0	665.4	776.9
135°	274.0	299.0	423.1	633.7	734.6
137.5°	288.5	311.5	421.2	602.9	692.3
140°	302.9	323.1	419.2	573.1	652.9
142.5°	316.3	334.6	419.2	547.1	614.4
145°	329.8	346.2	419.2	524.0	580.8
147.5°	343.3	357.7	419.2	503.8	550.0
150°	356.7	367.3	421.2	487.5	525.0
152.5°	370.2	377.9	423.1	473.1	502.9
155°	380.8	387.5	425.0	462.5	484.6
157.5°	393.3	397.1	426.9	455.8	473.1
160°	402.9	405.8	428.8	451.0	462.5
162.5°	412.5	412.5	429.8	447.1	454.8
165°	421.2	419.2	432.7	444.2	449.0
167.5°	426.9	425.0	433.7	440.4	444.2
170°	433.7	430.8	435.6	439.4	441.3
172.5°	437.5	433.7	436.5	438.5	439.4
175°	441.3	436.5	437.5	437.5	438.5
177.5°	444.2	438.5	438.5	438.5	435.6
180°	438.5	438.5	438.5	438.5	438.5

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