

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: P234871

Luminaire Tested: **CTA-F-7525-20L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-4_PR)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-7525-20L840-UNV-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
2000 LUMENS, 75% UPLIGHT, 25% DOWNLIGHT
Light Source: (672) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

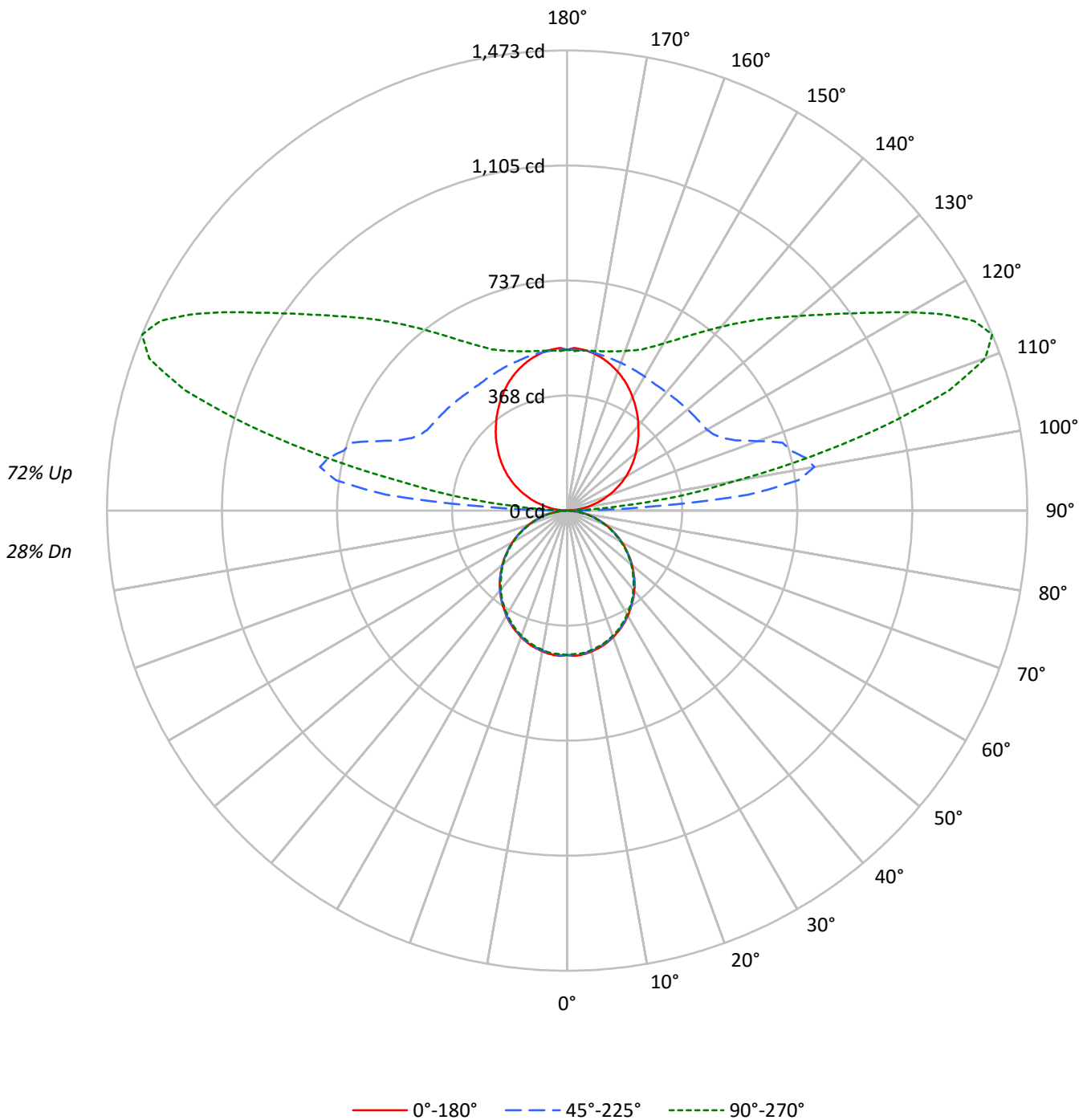
Lumens per Lamp: N/A
Luminaire Lumens: 4688.9 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 32.1
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	88	85	81	83	79	76	73	62	60	58	46	45	44	31	31	30	23
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	28	26	25	19
3	77	68	60	55	68	61	55	50	48	43	40	36	33	30	24	23	21	16
4	70	60	52	46	62	54	47	42	42	37	34	32	28	26	22	20	18	14
5	64	53	45	39	57	48	41	36	38	33	29	28	25	22	19	17	16	12
6	59	47	39	34	53	43	36	31	34	29	25	25	22	19	18	15	14	10
7	54	43	35	29	48	38	32	27	30	25	22	23	20	17	16	14	12	9
8	50	38	31	26	45	35	28	24	28	23	19	21	18	15	15	12	11	8
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	10	7
10	44	32	25	20	39	29	23	19	23	18	15	18	14	12	12	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1493	1493	1493
5°	1506	1497	1489
10°	1500	1491	1485
15°	1494	1484	1478
20°	1482	1476	1466
25°	1466	1460	1450
30°	1449	1444	1432
35°	1429	1423	1414
40°	1409	1403	1387
45°	1387	1381	1364
50°	1361	1357	1345
55°	1333	1325	1314
60°	1302	1293	1284
65°	1268	1254	1239
70°	1222	1204	1190
75°	1170	1147	1140
80°	1080	1064	1047
85°	974	904	834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	0.9
10°-20°	125.1	2.7
20°-30°	188.2	4.0
30°-40°	225.2	4.8
40°-50°	232.4	5.0
50°-60°	210.1	4.5
60°-70°	162.3	3.5
70°-80°	97.4	2.1
80°-90°	28.5	0.6
90°-100°	273.4	5.8
100°-110°	692.8	14.8
110°-120°	696.2	14.8
120°-130°	539.8	11.5
130°-140°	424.4	9.1
140°-150°	323.4	6.9
150°-160°	232.8	5.0
160°-170°	143.9	3.1
170°-180°	49.0	1.0
0°-30°	357.1	7.6
0°-40°	582.3	12.4
0°-60°	1024.8	21.9
0°-90°	1313.1	28.0
90°-120°	1662.5	35.5
90°-150°	2950.1	62.9
90°-180°	3376.0	72.0
0°-180°	4688.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	462	462	462	462	462	
5°	465	460	462	461	460	44
15°	447	442	444	444	442	126
25°	412	407	410	407	407	190
35°	362	360	361	358	359	227
45°	304	301	302	299	299	234
55°	237	236	235	233	234	212
65°	166	165	164	163	162	164
75°	94	92	92	92	91	99
85°	26	26	24	23	22	28
90°	2	3	4	3	2	4
95°	29	101	583	274	178	31
105°	102	168	741	1206	1057	107
115°	178	225	549	1234	1437	177
125°	253	291	509	917	1100	226
135°	322	352	498	746	864	248
145°	388	407	492	617	684	243
155°	448	455	499	544	569	206
165°	494	492	508	521	527	139
175°	518	512	514	514	514	49
180°	515	515	515	515	515	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	462.3	462.3	462.3	462.3	462.3
2.5°	465.6	461.3	463.2	462.3	459.9
5°	464.6	459.9	461.8	460.9	459.5
7.5°	461.8	457.6	459.5	458.1	457.6
10°	457.6	452.9	454.8	453.4	452.9
12.5°	452.4	447.7	450.6	449.2	447.7
15°	446.8	442.1	444.0	443.5	442.1
17.5°	439.3	435.1	437.0	436.5	434.6
20°	431.3	426.6	429.5	427.6	426.6
22.5°	421.5	417.7	419.6	417.3	417.3
25°	411.6	407.4	409.8	407.0	407.0
27.5°	400.9	396.6	399.5	396.2	395.7
30°	388.7	385.4	387.3	384.0	384.0
32.5°	375.5	373.2	375.1	371.3	371.3
35°	362.4	359.6	361.0	357.7	358.7
37.5°	348.8	346.5	347.9	344.6	345.1
40°	334.3	332.4	332.9	330.1	329.1
42.5°	319.8	316.9	318.3	315.1	315.1
45°	303.8	301.0	302.4	299.1	298.7
47.5°	286.9	286.5	286.0	283.2	284.1
50°	271.0	270.5	270.1	267.2	267.7
52.5°	254.1	253.2	252.7	249.9	250.8
55°	236.8	235.8	235.4	233.0	233.5
57.5°	219.4	218.9	218.0	216.1	216.1
60°	201.6	201.1	200.2	198.8	198.8
62.5°	184.3	183.8	182.4	181.0	181.0
65°	166.0	164.6	164.1	162.7	162.2
67.5°	148.2	146.3	145.3	144.9	143.9
70°	129.4	128.5	127.5	127.1	126.1
72.5°	111.6	110.2	109.7	109.7	108.3
75°	93.8	92.4	91.9	91.9	91.4
77.5°	75.0	76.0	74.5	74.5	73.6
80°	58.1	58.1	57.2	56.7	56.3
82.5°	41.3	42.2	40.8	40.3	38.9
85°	26.3	26.3	24.4	23.0	22.5
87.5°	11.3	10.8	9.4	8.4	7.0
90°	2.3	2.8	3.8	2.8	2.3
92.5°	15.0	64.7	242.4	57.2	38.9
95°	29.1	100.8	582.8	274.3	177.7
97.5°	45.5	121.0	745.9	491.8	371.8
100°	63.3	157.5	803.6	723.0	545.7
102.5°	82.0	166.0	781.1	991.6	798.9
105°	101.7	167.8	740.8	1206.3	1057.2
107.5°	121.0	170.7	723.0	1336.2	1283.2
110°	140.7	187.5	649.3	1369.0	1423.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	159.9	207.2	585.6	1323.1	1472.6
115°	178.2	225.0	549.0	1233.5	1437.0
117.5°	198.3	242.4	528.4	1135.1	1359.2
120°	217.1	258.8	517.1	1049.3	1269.2
122.5°	234.9	275.7	512.0	977.1	1178.2
125°	252.7	291.2	508.7	917.1	1099.9
127.5°	270.1	305.7	505.9	867.8	1029.6
130°	287.4	320.7	503.5	822.8	968.6
132.5°	304.3	336.6	500.7	783.0	914.7
135°	321.6	351.6	498.4	745.9	863.6
137.5°	338.5	366.2	496.0	710.3	814.8
140°	354.4	379.8	493.7	675.1	767.5
142.5°	371.8	393.8	493.7	645.6	723.9
145°	387.7	407.0	492.3	617.0	683.6
147.5°	403.7	419.1	493.7	593.6	647.5
150°	419.1	432.3	495.6	574.3	617.0
152.5°	434.1	444.0	497.0	557.5	591.2
155°	448.2	455.2	499.3	544.3	569.2
157.5°	461.3	465.6	501.2	536.4	555.1
160°	473.1	475.9	503.1	529.8	543.9
162.5°	483.8	485.3	504.9	525.1	534.5
165°	493.7	492.3	508.2	521.4	527.4
167.5°	502.1	499.8	509.6	517.6	522.3
170°	508.7	505.9	512.0	516.2	518.5
172.5°	514.8	509.6	513.4	514.8	516.2
175°	518.5	512.4	514.3	514.3	514.3
177.5°	520.9	514.8	514.8	514.8	511.0
180°	514.8	514.8	514.8	514.8	514.8

(END OF REPORT)