

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: P234874

Luminaire Tested: **CTA-F-7525-20L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234874
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-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
2000 LUMENS, 75% UPLIGHT, 25% DOWNLIGHT
Light Source: (1008) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7033.3 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')
CIE Type: Semi-Indirect

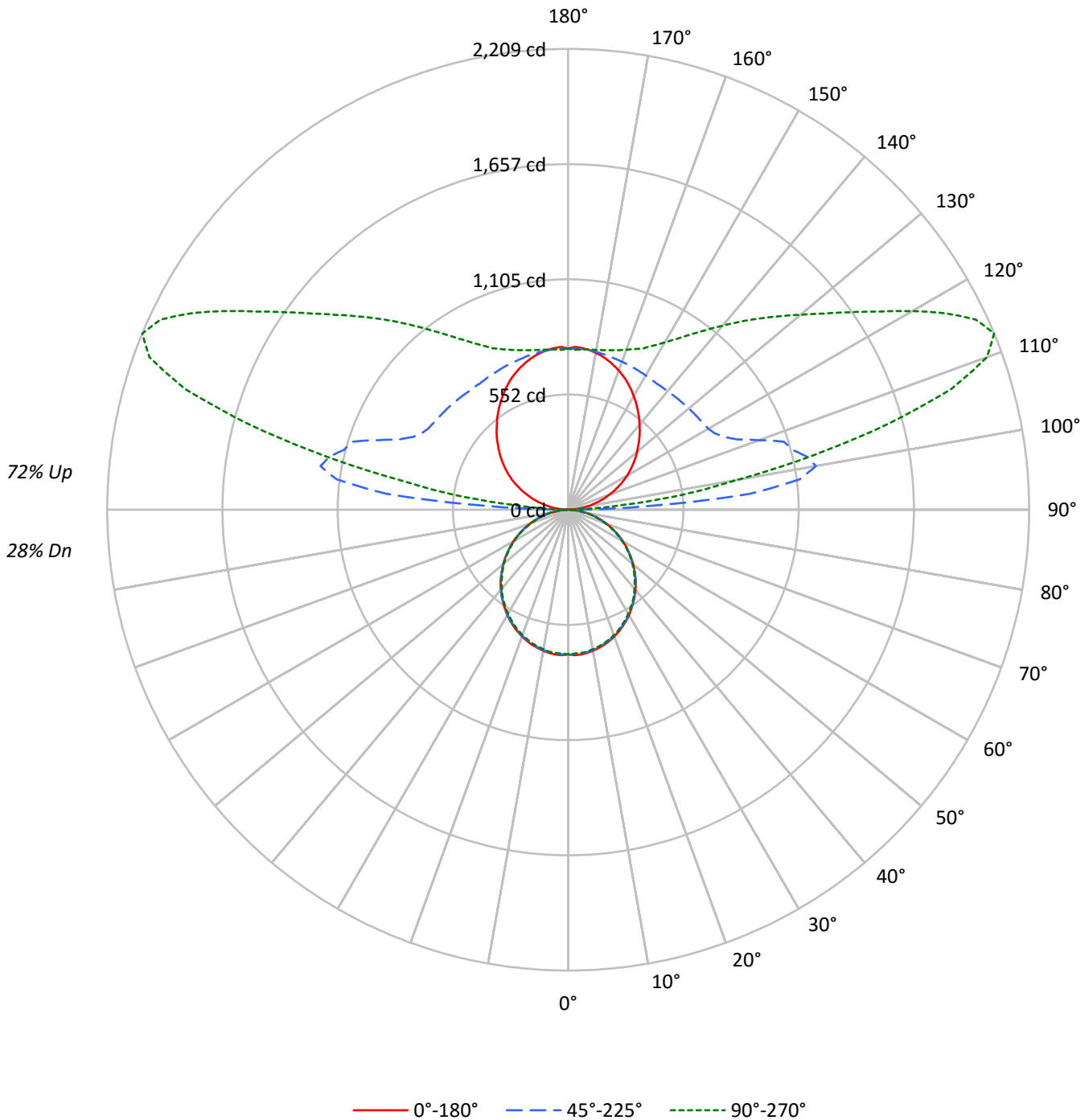
Input Watts (W): 46.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1467	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	1191
75°	1170	1146	1140
80°	1081	1064	1046
85°	973	904	835



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	0.9
10°-20°	187.6	2.7
20°-30°	282.3	4.0
30°-40°	337.8	4.8
40°-50°	348.6	5.0
50°-60°	315.1	4.5
60°-70°	243.4	3.5
70°-80°	146.1	2.1
80°-90°	42.8	0.6
90°-100°	410.2	5.8
100°-110°	1039.3	14.8
110°-120°	1044.2	14.8
120°-130°	809.7	11.5
130°-140°	636.6	9.1
140°-150°	485.1	6.9
150°-160°	349.3	5.0
160°-170°	215.9	3.1
170°-180°	73.5	1.0
0°-30°	535.7	7.6
0°-40°	873.5	12.4
0°-60°	1537.2	21.9
0°-90°	1969.6	28.0
90°-120°	2493.7	35.5
90°-150°	4425.1	62.9
90°-180°	5064.0	72.0
0°-180°	7033.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	693	693	693	693	693	
5°	697	690	693	691	689	66
15°	670	663	666	665	663	189
25°	618	611	615	610	610	285
35°	544	539	542	537	538	340
45°	456	452	454	449	448	351
55°	355	354	353	350	350	318
65°	249	247	246	244	243	246
75°	141	138	138	138	137	148
85°	39	39	37	34	34	42
90°	4	4	6	4	4	6
95°	44	151	874	411	266	46
105°	153	252	1111	1810	1586	161
115°	267	338	824	1850	2156	265
125°	379	437	763	1376	1650	339
135°	482	527	748	1119	1295	372
145°	582	610	738	926	1025	364
155°	672	683	749	816	854	310
165°	740	738	762	782	791	209
175°	778	769	772	772	772	74
180°	772	772	772	772	772	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	693.4	693.4	693.4	693.4	693.4
2.5°	698.3	692.0	694.8	693.4	689.9
5°	696.9	689.9	692.7	691.3	689.2
7.5°	692.7	686.4	689.2	687.1	686.4
10°	686.4	679.4	682.2	680.1	679.4
12.5°	678.7	671.6	675.8	673.7	671.6
15°	670.2	663.2	666.0	665.3	663.2
17.5°	659.0	652.6	655.4	654.7	651.9
20°	647.0	640.0	644.2	641.4	640.0
22.5°	632.2	626.6	629.4	625.9	625.9
25°	617.5	611.1	614.7	610.4	610.4
27.5°	601.3	595.0	599.2	594.3	593.6
30°	583.0	578.1	580.9	576.0	576.0
32.5°	563.3	559.8	562.6	557.0	557.0
35°	543.6	539.4	541.5	536.6	538.0
37.5°	523.2	519.7	521.8	516.9	517.6
40°	501.4	498.6	499.3	495.1	493.7
42.5°	479.6	475.4	477.5	472.6	472.6
45°	455.7	451.5	453.6	448.7	448.0
47.5°	430.4	429.7	429.0	424.8	426.2
50°	406.5	405.8	405.1	400.9	401.6
52.5°	381.2	379.8	379.1	374.8	376.2
55°	355.1	353.7	353.0	349.5	350.2
57.5°	329.1	328.4	327.0	324.2	324.2
60°	302.4	301.7	300.3	298.2	298.2
62.5°	276.4	275.7	273.6	271.5	271.5
65°	249.0	246.8	246.1	244.0	243.3
67.5°	222.2	219.4	218.0	217.3	215.9
70°	194.1	192.7	191.3	190.6	189.2
72.5°	167.4	165.3	164.6	164.6	162.5
75°	140.7	138.5	137.8	137.8	137.1
77.5°	112.5	113.9	111.8	111.8	110.4
80°	87.2	87.2	85.8	85.1	84.4
82.5°	61.9	63.3	61.2	60.5	58.4
85°	39.4	39.4	36.6	34.5	33.8
87.5°	16.9	16.2	14.1	12.7	10.5
90°	3.5	4.2	5.6	4.2	3.5
92.5°	22.5	97.1	363.6	85.8	58.4
95°	43.6	151.2	874.2	411.4	266.5
97.5°	68.2	181.4	1118.9	737.7	557.7
100°	94.9	236.3	1205.4	1084.4	818.6
102.5°	123.1	249.0	1171.6	1487.4	1198.4
105°	152.6	251.8	1111.2	1809.5	1585.9
107.5°	181.4	256.0	1084.4	2004.3	1924.8
110°	211.0	281.3	974.0	2053.5	2135.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	239.8	310.8	878.4	1984.6	2209.0
115°	267.2	337.6	823.5	1850.3	2155.5
117.5°	297.5	363.6	792.6	1702.6	2038.8
120°	325.6	388.2	775.7	1573.9	1903.7
122.5°	352.3	413.5	768.0	1465.6	1767.3
125°	379.1	436.7	763.0	1375.6	1649.9
127.5°	405.1	458.5	758.8	1301.7	1544.4
130°	431.1	481.0	755.3	1234.2	1452.9
132.5°	456.4	504.9	751.1	1174.5	1372.1
135°	482.4	527.4	747.6	1118.9	1295.4
137.5°	507.8	549.2	744.1	1065.4	1222.3
140°	531.7	569.6	740.5	1012.7	1151.2
142.5°	557.7	590.7	740.5	968.4	1085.8
145°	581.6	610.4	738.4	925.5	1025.4
147.5°	605.5	628.7	740.5	890.3	971.2
150°	628.7	648.4	743.4	861.5	925.5
152.5°	651.2	666.0	745.5	836.2	886.8
155°	672.3	682.9	749.0	816.5	853.8
157.5°	692.0	698.3	751.8	804.5	832.7
160°	709.6	713.8	754.6	794.7	815.8
162.5°	725.8	727.9	757.4	787.7	801.7
165°	740.5	738.4	762.3	782.0	791.2
167.5°	753.2	749.7	764.4	776.4	783.4
170°	763.0	758.8	768.0	774.3	777.8
172.5°	772.2	764.4	770.1	772.2	774.3
175°	777.8	768.7	771.5	771.5	771.5
177.5°	781.3	772.2	772.2	772.2	766.6
180°	772.2	772.2	772.2	772.2	772.2

(END OF REPORT)