

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: METALUX

Report Number: P284484

Luminaire Tested: **8SNLED-LD5-83SL-SLW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P284484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-83SL-SLW-UNV-L830-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8127.1 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

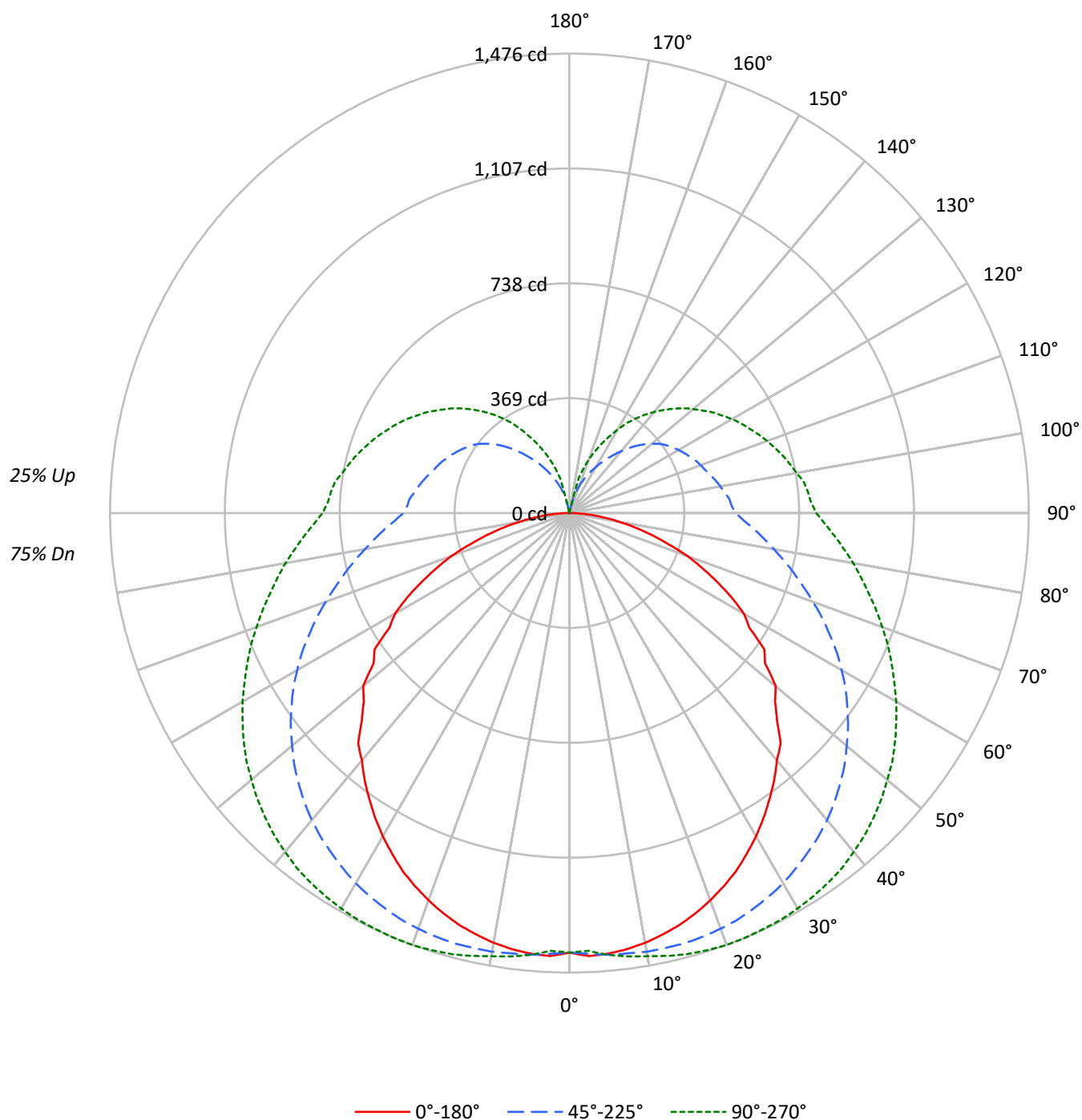
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5703	5703	5703
5°	5755	5641	5594
10°	5735	5597	5562
15°	5704	5572	5574
20°	5658	5551	5585
25°	5613	5535	5594
30°	5545	5524	5624
35°	5469	5509	5662
40°	5398	5511	5699
45°	5309	5504	5744
50°	5339	5499	5790
55°	5262	5507	5859
60°	5093	5519	5938
65°	4839	5537	6049
70°	4565	5591	6219
75°	4060	5737	6470
80°	3514	6037	6887
85°	2777	6638	7496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	1.7
10°-20°	402.0	4.9
20°-30°	639.0	7.9
30°-40°	820.1	10.1
40°-50°	926.1	11.4
50°-60°	944.9	11.6
60°-70°	875.4	10.8
70°-80°	741.2	9.1
80°-90°	591.6	7.3
90°-100°	502.4	6.2
100°-110°	447.6	5.5
110°-120°	381.2	4.7
120°-130°	302.8	3.7
130°-140°	214.8	2.6
140°-150°	128.3	1.6
150°-160°	59.8	0.7
160°-170°	14.2	0.2
170°-180°	0.0	0.0
0°-30°	1176.7	14.5
0°-40°	1996.7	24.6
0°-60°	3867.8	47.6
0°-90°	6076.0	74.8
90°-120°	1331.2	16.4
90°-150°	1977.0	24.3
90°-180°	2051.0	25.2
0°-180°	8127.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1421	1409	1424	1424	1424	135
15°	1369	1381	1431	1457	1467	386
25°	1268	1310	1402	1451	1474	584
35°	1121	1203	1333	1415	1450	702
45°	944	1071	1230	1337	1383	733
55°	764	892	1090	1224	1278	671
65°	523	697	922	1081	1142	519
75°	275	487	747	930	995	293
85°	71	313	596	788	856	77
90°	4	256	533	726	793	6
95°	0	241	516	704	769	0
105°	0	222	470	647	711	0
115°	0	206	428	582	640	0
125°	0	178	380	514	563	0
135°	0	132	306	433	474	0
145°	0	86	214	325	370	1
155°	2	54	132	198	246	1
165°	2	29	59	82	116	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1411.5	1411.5	1411.5	1411.5	1411.5
2.5°	1424.4	1409.4	1417.2	1415.1	1407.4
5°	1420.8	1409.4	1424.4	1424.4	1424.4
7.5°	1413.1	1405.3	1426.5	1434.2	1436.2
10°	1401.7	1401.7	1430.6	1441.9	1445.5
12.5°	1386.3	1391.9	1430.6	1447.6	1456.9
15°	1369.2	1380.6	1430.6	1456.9	1466.6
17.5°	1348.1	1367.2	1426.5	1458.9	1472.3
20°	1323.4	1352.2	1420.8	1458.9	1476.4
22.5°	1296.6	1333.2	1413.1	1455.3	1476.4
25°	1268.2	1310.0	1401.7	1451.2	1474.4
27.5°	1233.7	1287.3	1388.3	1445.5	1472.3
30°	1199.2	1260.5	1372.9	1437.8	1466.6
32.5°	1161.1	1231.7	1353.8	1426.5	1458.9
35°	1120.9	1203.3	1333.2	1415.1	1449.6
37.5°	1080.7	1168.8	1312.0	1399.7	1437.8
40°	1036.9	1134.3	1287.3	1380.6	1420.8
42.5°	1004.4	1098.2	1260.5	1361.5	1403.8
45°	943.6	1071.4	1229.6	1336.8	1382.6
47.5°	895.7	1019.9	1199.2	1312.0	1359.5
50°	865.2	977.6	1163.1	1283.2	1333.2
52.5°	792.6	949.2	1128.6	1254.8	1307.9
55°	763.7	892.0	1090.5	1223.9	1277.5
57.5°	685.4	851.9	1052.3	1189.9	1245.1
60°	647.3	796.2	1010.1	1155.4	1212.6
62.5°	588.0	748.8	968.3	1117.2	1176.5
65°	523.1	697.3	922.5	1080.7	1142.0
67.5°	462.3	645.7	878.6	1042.5	1107.5
70°	403.0	592.1	832.8	1004.4	1069.3
72.5°	333.9	538.5	788.5	968.3	1033.2
75°	275.2	487.0	746.7	930.2	995.1
77.5°	217.5	437.5	706.5	895.7	960.6
80°	164.4	389.6	666.3	859.6	926.1
82.5°	114.4	349.4	630.3	825.1	890.0
85°	70.6	313.3	595.7	788.5	855.5
87.5°	32.5	280.9	561.2	754.5	823.0
90°	3.6	256.1	532.9	725.6	792.6
92.5°	2.1	248.4	521.5	712.2	777.1
95°	0.0	240.7	515.9	704.5	769.4
97.5°	0.0	232.9	502.5	693.1	760.1
100°	0.0	229.3	492.7	676.1	741.1
102.5°	0.0	223.7	481.3	660.7	725.6
105°	0.0	221.6	470.0	647.3	710.6
107.5°	0.0	217.5	458.1	630.3	693.1
110°	0.0	213.9	448.9	614.8	676.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	210.3	439.1	599.9	658.6
115°	0.0	206.1	427.7	582.3	639.5
117.5°	0.0	200.5	416.4	565.3	622.5
120°	0.0	192.7	405.1	549.9	603.5
122.5°	0.0	185.0	393.2	530.8	582.3
125°	0.0	177.8	379.8	513.8	563.3
127.5°	0.0	165.9	364.9	494.7	540.6
130°	0.0	154.6	345.8	475.7	519.5
132.5°	2.1	143.3	326.7	454.5	498.3
135°	0.0	131.9	305.6	433.4	473.6
137.5°	0.0	122.1	282.4	410.7	448.9
140°	0.0	110.8	259.7	383.9	424.1
142.5°	0.0	97.4	237.1	355.1	397.3
145°	0.0	86.1	213.9	324.7	370.5
147.5°	2.1	76.3	192.7	292.2	341.7
150°	2.1	68.5	172.1	259.7	309.2
152.5°	2.1	61.3	151.0	229.3	276.7
155°	2.1	53.6	131.9	198.4	246.3
157.5°	2.1	45.9	110.8	168.0	213.9
160°	2.1	40.2	91.7	141.2	183.5
162.5°	2.1	34.5	74.7	110.8	151.0
165°	2.1	28.9	59.3	81.9	116.5
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)