

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: P284562

Luminaire Tested: **8SNLED-LD5-83SL-SLW-UNV-L840-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: P284562
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-L840-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: 8407.0 lumens
Efficiency: N/A
Efficacy: 112.1 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

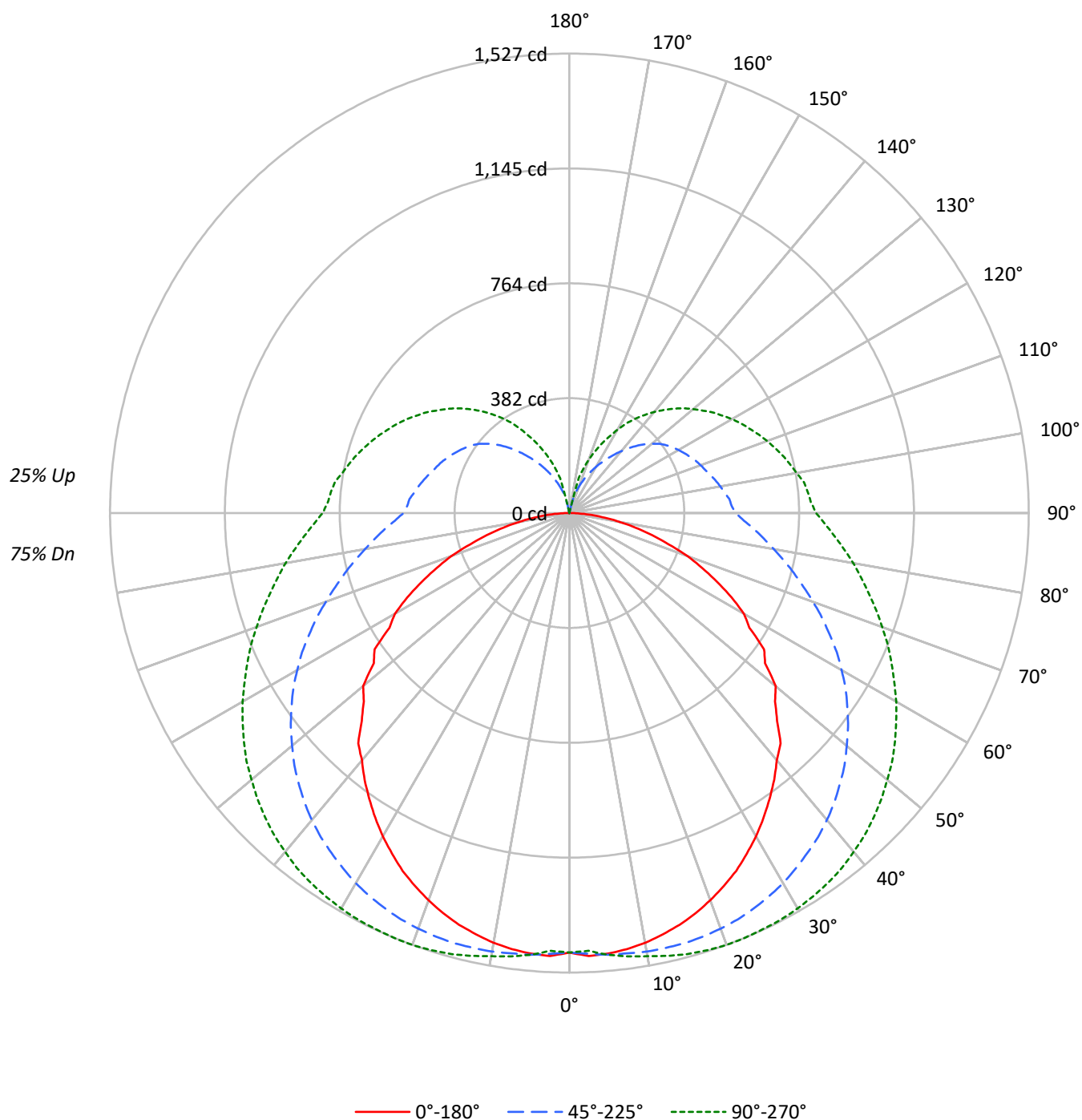
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75		
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60	56		
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48	44		
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39	36		
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33	30		
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28	25		
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24	22		
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21	19		
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19	17		
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17	15		
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5900	5900	5900
5°	5953	5835	5786
10°	5933	5790	5754
15°	5900	5764	5767
20°	5853	5742	5778
25°	5806	5726	5787
30°	5736	5714	5818
35°	5657	5699	5857
40°	5584	5701	5895
45°	5492	5694	5942
50°	5524	5689	5989
55°	5444	5697	6060
60°	5268	5710	6143
65°	5006	5727	6257
70°	4722	5784	6433
75°	4200	5935	6693
80°	3636	6246	7124
85°	2871	6868	7754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	1.7
10°-20°	415.9	4.9
20°-30°	661.0	7.9
30°-40°	848.3	10.1
40°-50°	958.0	11.4
50°-60°	977.5	11.6
60°-70°	905.6	10.8
70°-80°	766.7	9.1
80°-90°	612.0	7.3
90°-100°	519.7	6.2
100°-110°	463.0	5.5
110°-120°	394.3	4.7
120°-130°	313.2	3.7
130°-140°	222.2	2.6
140°-150°	132.7	1.6
150°-160°	61.9	0.7
160°-170°	14.7	0.2
170°-180°	0.0	0.0
0°-30°	1217.2	14.5
0°-40°	2065.5	24.6
0°-60°	4001.0	47.6
0°-90°	6285.3	74.8
90°-120°	1377.0	16.4
90°-150°	2045.1	24.3
90°-180°	2122.0	25.2
0°-180°	8407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1460	1460	1460	1460	1460	
5°	1470	1458	1474	1474	1474	140
15°	1416	1428	1480	1507	1517	400
25°	1312	1355	1450	1501	1525	604
35°	1160	1245	1379	1464	1500	726
45°	976	1108	1272	1383	1430	758
55°	790	923	1128	1266	1322	694
65°	541	721	954	1118	1181	537
75°	285	504	772	962	1029	303
85°	73	324	616	816	885	80
90°	4	265	551	751	820	6
95°	0	249	534	729	796	0
105°	0	229	486	670	735	0
115°	0	213	442	602	662	0
125°	0	184	393	532	583	0
135°	0	136	316	448	490	0
145°	0	89	221	336	383	1
155°	2	55	136	205	255	1
165°	2	30	61	85	120	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°	1460.1	1460.1	1460.1	1460.1	1460.1
2.5°	1473.5	1458.0	1466.0	1463.9	1455.9
5°	1469.7	1458.0	1473.5	1473.5	1473.5
7.5°	1461.7	1453.7	1475.6	1483.6	1485.7
10°	1450.0	1450.0	1479.9	1491.6	1495.3
12.5°	1434.0	1439.9	1479.9	1497.5	1507.0
15°	1416.4	1428.2	1479.9	1507.0	1517.2
17.5°	1394.6	1414.3	1475.6	1509.2	1523.0
20°	1369.0	1398.8	1469.7	1509.2	1527.3
22.5°	1341.3	1379.1	1461.7	1505.4	1527.3
25°	1311.9	1355.1	1450.0	1501.2	1525.2
27.5°	1276.2	1331.7	1436.1	1495.3	1523.0
30°	1240.5	1303.9	1420.2	1487.3	1517.2
32.5°	1201.1	1274.1	1400.4	1475.6	1509.2
35°	1159.5	1244.8	1379.1	1463.9	1499.6
37.5°	1117.9	1209.1	1357.3	1447.9	1487.3
40°	1072.6	1173.3	1331.7	1428.2	1469.7
42.5°	1039.0	1136.0	1303.9	1408.4	1452.1
45°	976.1	1108.3	1272.0	1382.8	1430.3
47.5°	926.5	1055.0	1240.5	1357.3	1406.3
50°	895.1	1011.3	1203.2	1327.4	1379.1
52.5°	819.9	982.0	1167.5	1298.1	1353.0
55°	790.0	922.8	1128.0	1266.1	1321.5
57.5°	709.0	881.2	1088.6	1230.9	1287.9
60°	669.6	823.6	1044.9	1195.2	1254.4
62.5°	608.3	774.6	1001.7	1155.7	1217.0
65°	541.1	721.3	954.2	1117.9	1181.3
67.5°	478.2	668.0	908.9	1078.4	1145.6
70°	416.9	612.5	861.5	1039.0	1106.2
72.5°	345.4	557.1	815.6	1001.7	1068.8
75°	284.7	503.8	772.4	962.2	1029.4
77.5°	225.0	452.6	730.9	926.5	993.7
80°	170.1	403.0	689.3	889.2	958.0
82.5°	118.3	361.4	652.0	853.5	920.6
85°	73.0	324.1	616.3	815.6	884.9
87.5°	33.6	290.5	580.5	780.4	851.3
90°	3.7	264.9	551.2	750.6	819.9
92.5°	2.1	257.0	539.5	736.7	803.9
95°	0.0	249.0	533.6	728.7	795.9
97.5°	0.0	241.0	519.8	717.0	786.3
100°	0.0	237.2	509.6	699.4	766.6
102.5°	0.0	231.4	497.9	683.4	750.6
105°	0.0	229.2	486.2	669.6	735.1
107.5°	0.0	225.0	473.9	652.0	717.0
110°	0.0	221.2	464.3	636.0	699.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	217.5	454.2	620.5	681.3
115°	0.0	213.2	442.5	602.4	661.6
117.5°	0.0	207.4	430.7	584.8	644.0
120°	0.0	199.4	419.0	568.8	624.2
122.5°	0.0	191.4	406.7	549.1	602.4
125°	0.0	183.9	392.9	531.5	582.7
127.5°	0.0	171.7	377.4	511.8	559.2
130°	0.0	159.9	357.7	492.0	537.4
132.5°	2.1	148.2	338.0	470.2	515.5
135°	0.0	136.5	316.1	448.3	489.9
137.5°	0.0	126.3	292.1	424.9	464.3
140°	0.0	114.6	268.7	397.2	438.7
142.5°	0.0	100.8	245.2	367.3	411.0
145°	0.0	89.0	221.2	335.8	383.3
147.5°	2.1	78.9	199.4	302.3	353.4
150°	2.1	70.9	178.1	268.7	319.9
152.5°	2.1	63.4	156.2	237.2	286.3
155°	2.1	55.4	136.5	205.2	254.8
157.5°	2.1	47.4	114.6	173.8	221.2
160°	2.1	41.6	94.9	146.1	189.8
162.5°	2.1	35.7	77.3	114.6	156.2
165°	2.1	29.9	61.3	84.8	120.5
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)