

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: P284723

Luminaire Tested: **8SNLED-LD5-130HL-SLW-UNV-L940-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: P284723
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-LD5-130HL-SLW-UNV-L940-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: 8944.0 lumens
Efficiency: N/A
Efficacy: 104.0 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

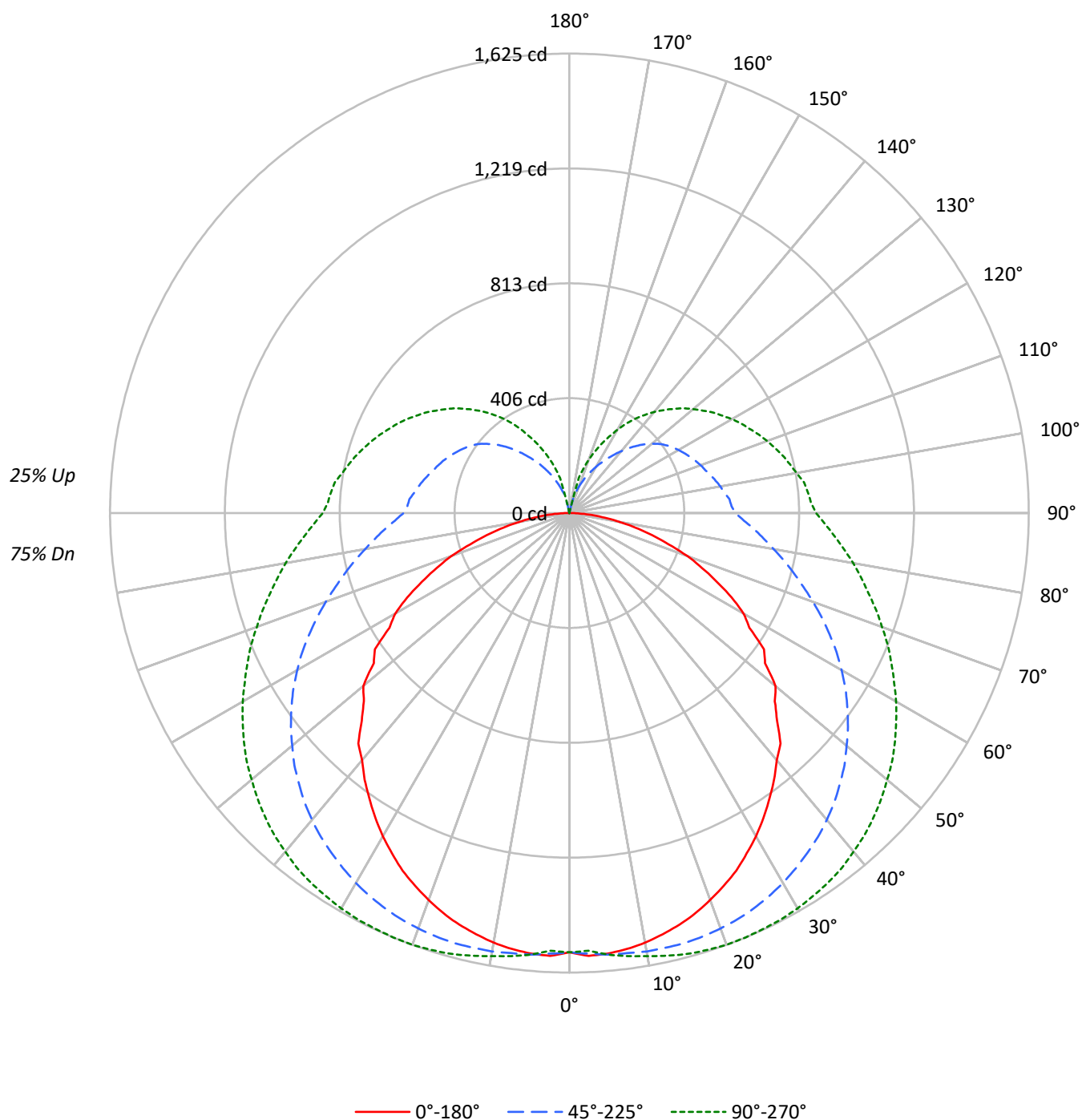
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	6277	6277	6277
5°	6333	6208	6156
10°	6312	6159	6122
15°	6277	6132	6135
20°	6227	6108	6147
25°	6177	6092	6156
30°	6102	6079	6189
35°	6018	6063	6231
40°	5941	6065	6272
45°	5842	6058	6322
50°	5876	6052	6372
55°	5792	6061	6447
60°	5604	6074	6535
65°	5325	6093	6657
70°	5024	6153	6844
75°	4468	6314	7121
80°	3867	6644	7579
85°	3056	7306	8250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	1.7
10°-20°	442.5	4.9
20°-30°	703.2	7.9
30°-40°	902.5	10.1
40°-50°	1019.2	11.4
50°-60°	1039.9	11.6
60°-70°	963.4	10.8
70°-80°	815.7	9.1
80°-90°	651.1	7.3
90°-100°	552.9	6.2
100°-110°	492.6	5.5
110°-120°	419.5	4.7
120°-130°	333.2	3.7
130°-140°	236.4	2.6
140°-150°	141.1	1.6
150°-160°	65.8	0.7
160°-170°	15.6	0.2
170°-180°	0.0	0.0
0°-30°	1294.9	14.5
0°-40°	2197.5	24.6
0°-60°	4256.6	47.6
0°-90°	6686.8	74.8
90°-120°	1465.0	16.4
90°-150°	2175.8	24.3
90°-180°	2257.0	25.2
0°-180°	8944.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1564	1551	1568	1568	1568	149
15°	1507	1519	1574	1603	1614	425
25°	1396	1442	1543	1597	1623	642
35°	1234	1324	1467	1557	1595	772
45°	1038	1179	1353	1471	1522	806
55°	840	982	1200	1347	1406	738
65°	576	767	1015	1189	1257	571
75°	303	536	822	1024	1095	322
85°	78	345	656	868	942	85
90°	4	282	586	798	872	6
95°	0	265	568	775	847	0
105°	0	244	517	712	782	0
115°	0	227	471	641	704	0
125°	0	196	418	565	620	0
135°	0	145	336	477	521	0
145°	0	95	235	357	408	1
155°	2	59	145	218	271	1
165°	2	32	65	90	128	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°	1553.4	1553.4	1553.4	1553.4	1553.4
2.5°	1567.6	1551.1	1559.6	1557.4	1548.9
5°	1563.6	1551.1	1567.6	1567.6	1567.6
7.5°	1555.1	1546.6	1569.9	1578.4	1580.6
10°	1542.6	1542.6	1574.4	1586.9	1590.8
12.5°	1525.6	1531.9	1574.4	1593.1	1603.3
15°	1506.9	1519.4	1574.4	1603.3	1614.1
17.5°	1483.6	1504.6	1569.9	1605.6	1620.3
20°	1456.4	1488.2	1563.6	1605.6	1624.9
22.5°	1426.9	1467.2	1555.1	1601.6	1624.9
25°	1395.7	1441.7	1542.6	1597.1	1622.6
27.5°	1357.7	1416.7	1527.9	1590.8	1620.3
30°	1319.7	1387.2	1510.9	1582.3	1614.1
32.5°	1277.8	1355.5	1489.9	1569.9	1605.6
35°	1233.5	1324.3	1467.2	1557.4	1595.4
37.5°	1189.3	1286.3	1443.9	1540.4	1582.3
40°	1141.1	1248.3	1416.7	1519.4	1563.6
42.5°	1105.4	1208.6	1387.2	1498.4	1544.9
45°	1038.4	1179.1	1353.2	1471.2	1521.6
47.5°	985.7	1122.4	1319.7	1443.9	1496.1
50°	952.2	1075.9	1280.0	1412.2	1467.2
52.5°	872.3	1044.7	1242.0	1381.0	1439.4
55°	840.5	981.7	1200.1	1347.0	1405.9
57.5°	754.3	937.5	1158.1	1309.5	1370.2
60°	712.3	876.2	1111.6	1271.5	1334.5
62.5°	647.1	824.1	1065.7	1229.6	1294.8
65°	575.6	767.3	1015.2	1189.3	1256.8
67.5°	508.7	710.6	967.0	1147.3	1218.8
70°	443.5	651.6	916.5	1105.4	1176.8
72.5°	367.5	592.7	867.7	1065.7	1137.1
75°	302.9	535.9	821.8	1023.7	1095.2
77.5°	239.3	481.5	777.6	985.7	1057.2
80°	180.9	428.8	733.3	946.0	1019.2
82.5°	125.9	384.5	693.6	908.0	979.5
85°	77.7	344.8	655.6	867.7	941.5
87.5°	35.7	309.1	617.6	830.3	905.7
90°	4.0	281.9	586.4	798.5	872.3
92.5°	2.3	273.4	573.9	783.8	855.3
95°	0.0	264.9	567.7	775.3	846.7
97.5°	0.0	256.3	553.0	762.8	836.5
100°	0.0	252.4	542.2	744.1	815.6
102.5°	0.0	246.1	529.7	727.1	798.5
105°	0.0	243.9	517.2	712.3	782.1
107.5°	0.0	239.3	504.2	693.6	762.8
110°	0.0	235.4	494.0	676.6	744.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	231.4	483.2	660.2	724.8
115°	0.0	226.9	470.7	640.9	703.8
117.5°	0.0	220.6	458.3	622.2	685.1
120°	0.0	212.1	445.8	605.1	664.1
122.5°	0.0	203.6	432.7	584.2	640.9
125°	0.0	195.7	418.0	565.4	619.9
127.5°	0.0	182.6	401.5	544.5	594.9
130°	0.0	170.1	380.6	523.5	571.7
132.5°	2.3	157.7	359.6	500.2	548.4
135°	0.0	145.2	336.3	477.0	521.2
137.5°	0.0	134.4	310.8	452.0	494.0
140°	0.0	121.9	285.8	422.5	466.8
142.5°	0.0	107.2	260.9	390.8	437.3
145°	0.0	94.7	235.4	357.3	407.8
147.5°	2.3	83.9	212.1	321.6	376.0
150°	2.3	75.4	189.4	285.8	340.3
152.5°	2.3	67.5	166.2	252.4	304.6
155°	2.3	59.0	145.2	218.3	271.1
157.5°	2.3	50.5	121.9	184.9	235.4
160°	2.3	44.2	101.0	155.4	201.9
162.5°	2.3	38.0	82.2	121.9	166.2
165°	2.3	31.8	65.2	90.2	128.2
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)