

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: P#

Luminaire Tested: **4SNLED-LD5-55HL-SLC-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-55HL-SLC-UNV-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

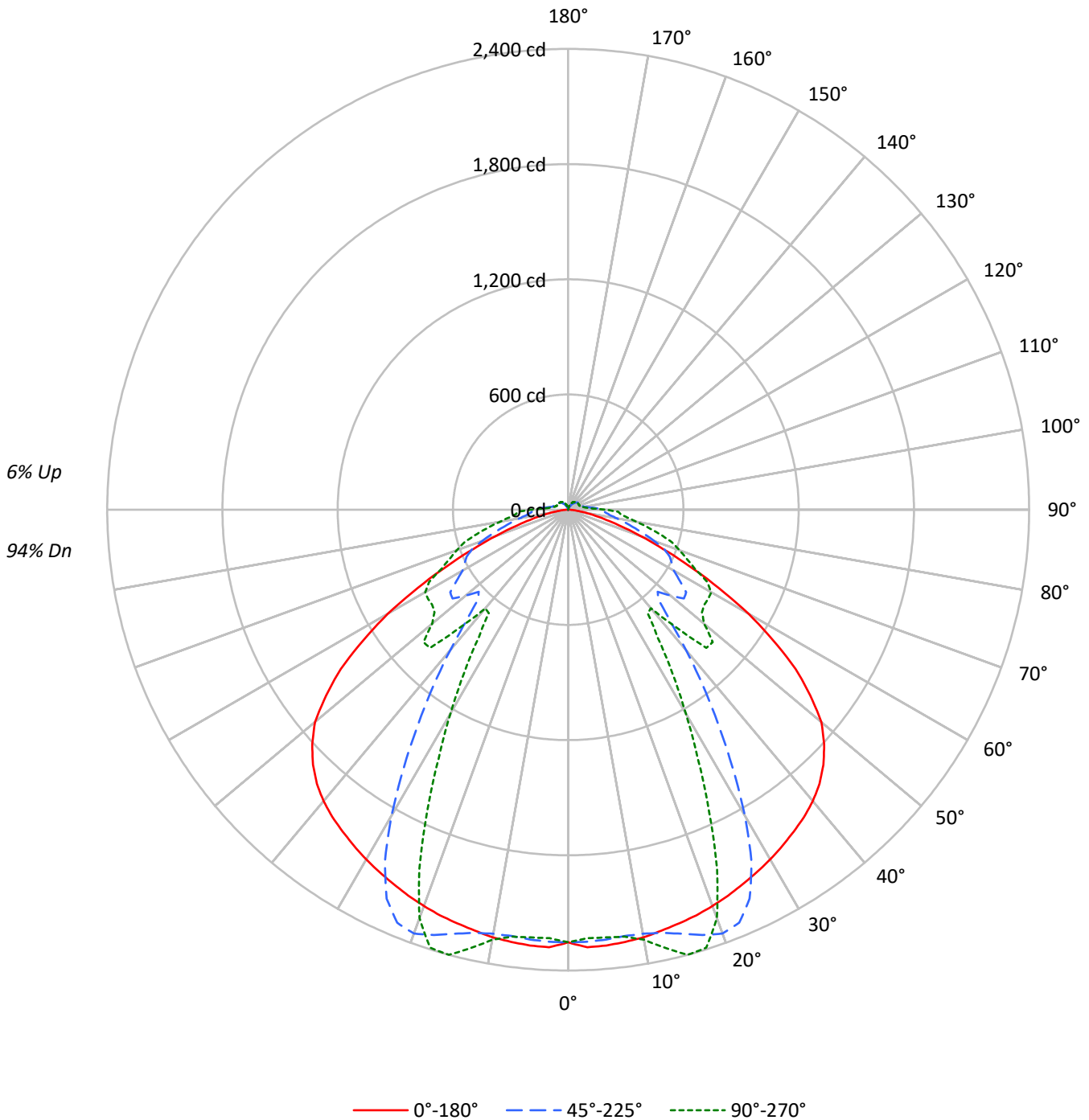
Lumens per Lamp: N/A
Luminaire Lumens: 5788.0 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 39
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	64	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18208	18208	18208
5°	18429	17782	17564
10°	18453	17511	17503
15°	18504	17758	18242
20°	18676	18287	17123
25°	18908	17575	13184
30°	19281	14719	9379
35°	19759	11148	6350
40°	20363	8104	5377
45°	20825	5879	8454
50°	20854	6509	8022
55°	19493	7492	7923
60°	16608	6855	8421
65°	12494	6914	7703
70°	8769	6294	7170
75°	5746	5273	6433
80°	3668	4516	5356
85°	1974	4294	4807



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	3.7
10°-20°	647.4	11.2
20°-30°	940.4	16.2
30°-40°	898.5	15.5
40°-50°	821.9	14.2
50°-60°	758.9	13.1
60°-70°	602.8	10.4
70°-80°	372.1	6.4
80°-90°	202.6	3.5
90°-100°	102.4	1.8
100°-110°	64.3	1.1
110°-120°	54.5	0.9
120°-130°	44.5	0.8
130°-140°	31.9	0.6
140°-150°	19.7	0.3
150°-160°	9.3	0.2
160°-170°	2.4	0.0
170°-180°	0.0	0.0
0°-30°	1802.1	31.1
0°-40°	2700.6	46.7
0°-60°	4281.4	74.0
0°-90°	5458.8	94.3
90°-120°	221.2	3.8
90°-150°	317.4	5.5
90°-180°	329.0	5.7
0°-180°	5788.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2253	2253	2253	2253	2253	
5°	2278	2243	2247	2235	2236	217
15°	2230	2200	2286	2371	2400	631
25°	2152	2193	2235	1892	1738	994
35°	2047	2014	1358	935	813	1283
45°	1879	1311	662	845	1017	1444
55°	1445	672	750	807	864	1273
65°	697	436	584	710	727	705
75°	206	232	350	464	495	233
85°	29	99	198	270	274	37
90°	1	74	178	210	194	2
95°	0	69	123	109	103	0
105°	0	62	76	69	68	0
115°	0	51	73	65	62	0
125°	1	41	65	63	60	1
135°	1	29	52	57	55	1
145°	1	18	36	46	49	1
155°	2	11	22	29	35	1
165°	2	6	11	14	19	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°	2253.2	2253.2	2253.2	2253.2	2253.2
2.5°	2281.1	2248.2	2252.2	2245.2	2233.3
5°	2278.1	2243.2	2247.2	2235.3	2236.3
7.5°	2270.2	2234.3	2239.2	2237.3	2242.2
10°	2261.2	2223.3	2242.2	2259.2	2274.2
12.5°	2245.2	2211.3	2257.2	2307.1	2338.0
15°	2230.3	2200.3	2286.1	2370.9	2399.8
17.5°	2215.3	2196.4	2322.0	2395.8	2391.9
20°	2196.4	2194.4	2349.0	2324.0	2263.2
22.5°	2175.4	2195.4	2328.0	2145.5	2025.8
25°	2151.5	2193.4	2235.3	1892.1	1737.5
27.5°	2127.5	2184.4	2066.7	1614.9	1462.2
30°	2103.6	2160.5	1839.3	1361.5	1222.9
32.5°	2075.7	2108.6	1591.9	1137.1	1009.4
35°	2046.7	2013.8	1357.5	934.6	812.9
37.5°	2016.8	1877.2	1147.1	757.1	679.3
40°	1980.9	1705.6	953.6	649.3	670.3
42.5°	1936.0	1512.1	783.0	681.3	826.9
45°	1879.2	1310.6	662.3	844.8	1017.4
47.5°	1807.4	1117.1	632.4	967.5	1021.4
50°	1720.6	939.6	695.2	927.6	923.6
52.5°	1588.9	792.0	759.1	845.8	877.7
55°	1445.3	672.3	750.1	806.9	863.8
57.5°	1263.8	591.5	688.2	798.9	864.8
60°	1083.2	537.6	635.4	798.0	859.8
62.5°	883.7	488.7	608.4	779.0	815.9
65°	697.2	435.9	584.5	710.2	727.1
67.5°	534.6	382.0	542.6	633.4	667.3
70°	403.0	329.2	476.8	574.5	616.4
72.5°	290.3	279.3	408.9	522.7	566.5
75°	205.5	232.4	350.1	463.8	494.7
77.5°	141.6	189.5	300.2	399.0	423.9
80°	92.8	151.6	255.3	343.1	360.1
82.5°	55.9	121.7	221.4	300.2	309.2
85°	28.9	98.7	198.5	270.3	274.3
87.5°	9.0	82.8	185.5	256.3	261.3
90°	1.0	73.8	177.5	210.5	194.5
92.5°	0.0	69.8	153.6	143.6	128.7
95°	0.0	68.8	122.7	108.7	102.7
97.5°	0.0	66.8	100.7	90.8	87.8
100°	0.0	64.8	86.8	79.8	78.8
102.5°	0.0	63.8	78.8	72.8	71.8
105°	0.0	61.8	75.8	68.8	67.8
107.5°	0.0	58.8	73.8	66.8	64.8
110°	0.0	55.9	73.8	65.8	62.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	52.9	73.8	64.8	61.8
115°	0.0	50.9	72.8	64.8	61.8
117.5°	1.0	48.9	71.8	64.8	61.8
120°	0.0	46.9	69.8	64.8	60.8
122.5°	1.0	43.9	67.8	63.8	60.8
125°	1.0	40.9	64.8	62.8	59.8
127.5°	1.0	37.9	61.8	60.8	57.9
130°	1.0	34.9	58.8	59.8	56.9
132.5°	1.0	31.9	54.9	57.9	55.9
135°	1.0	28.9	51.9	56.9	54.9
137.5°	1.0	25.9	47.9	53.9	53.9
140°	1.0	22.9	43.9	51.9	52.9
142.5°	1.0	20.9	39.9	49.9	50.9
145°	1.0	18.0	35.9	45.9	48.9
147.5°	1.0	16.0	31.9	41.9	45.9
150°	1.0	14.0	27.9	37.9	41.9
152.5°	1.0	12.0	24.9	32.9	38.9
155°	2.0	11.0	21.9	28.9	34.9
157.5°	2.0	9.0	18.0	24.9	29.9
160°	2.0	8.0	16.0	20.9	26.9
162.5°	2.0	7.0	13.0	18.0	22.9
165°	2.0	6.0	11.0	14.0	19.0
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)