

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-LD5-44HL-SLW-UNV-L940-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 (P27403)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-44HL-SLW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

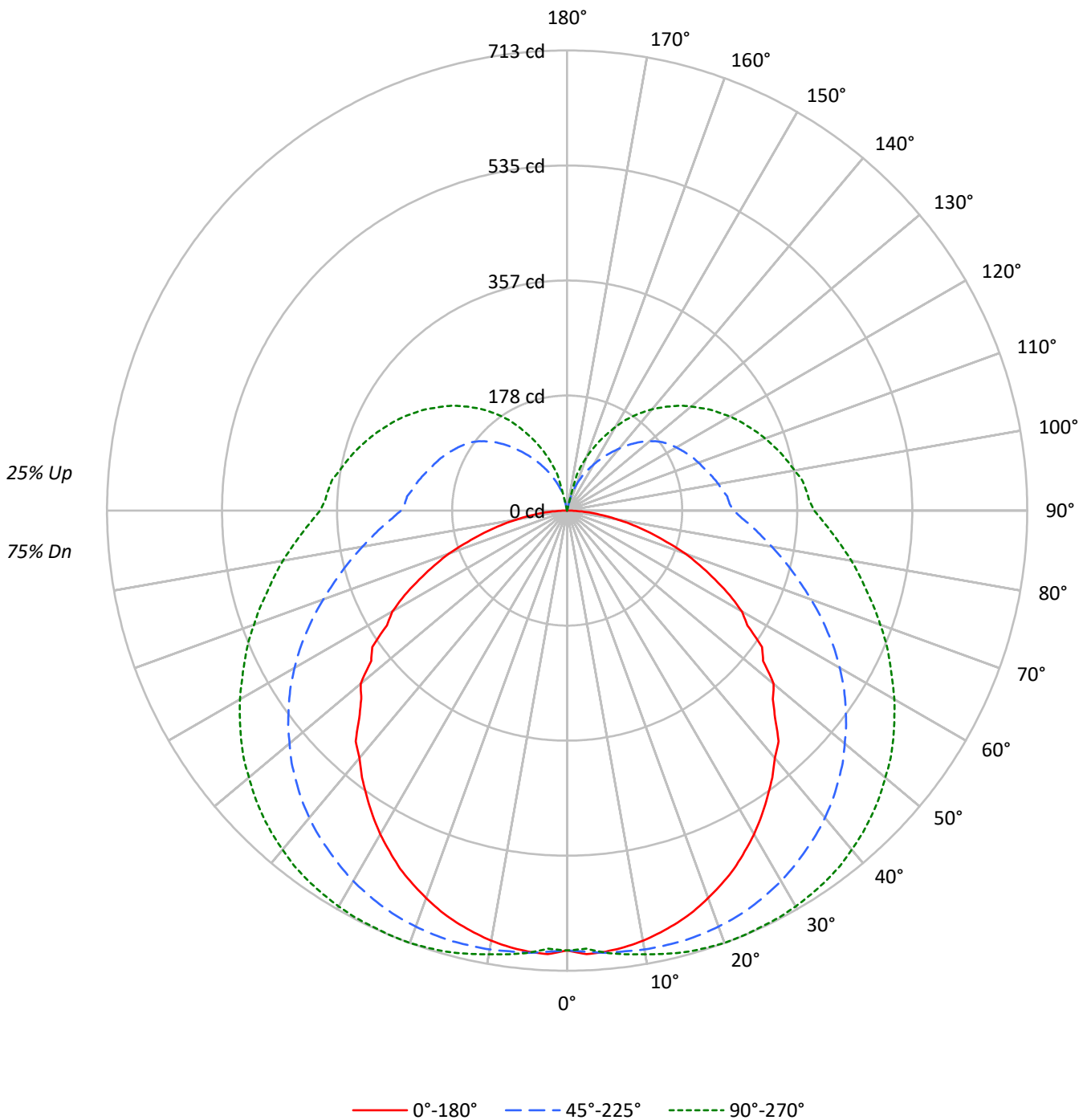
Lumens per Lamp: N/A
Luminaire Lumens: 3924.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 37
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	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°	5506	5506	5506
5°	5550	5443	5403
10°	5523	5393	5372
15°	5485	5364	5383
20°	5433	5340	5393
25°	5381	5321	5401
30°	5308	5306	5431
35°	5226	5285	5468
40°	5147	5282	5503
45°	5048	5271	5547
50°	5063	5258	5590
55°	4974	5258	5658
60°	4793	5263	5734
65°	4527	5268	5841
70°	4234	5306	6006
75°	3713	5430	6247
80°	3135	5693	6651
85°	2330	6223	7240



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	1.7
10°-20°	194.1	4.9
20°-30°	308.5	7.9
30°-40°	396.0	10.1
40°-50°	447.2	11.4
50°-60°	456.3	11.6
60°-70°	422.7	10.8
70°-80°	357.9	9.1
80°-90°	285.7	7.3
90°-100°	242.6	6.2
100°-110°	216.1	5.5
110°-120°	184.1	4.7
120°-130°	146.2	3.7
130°-140°	103.7	2.6
140°-150°	61.9	1.6
150°-160°	28.9	0.7
160°-170°	6.9	0.2
170°-180°	0.0	0.0
0°-30°	568.1	14.5
0°-40°	964.1	24.6
0°-60°	1867.5	47.6
0°-90°	2933.7	74.8
90°-120°	642.7	16.4
90°-150°	954.6	24.3
90°-180°	990.0	25.2
0°-180°	3924.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	686	680	688	688	688	65
15°	661	667	691	704	708	187
25°	612	632	677	701	712	282
35°	541	581	644	683	700	339
45°	456	517	594	646	668	354
55°	369	431	526	591	617	324
65°	253	337	445	522	551	251
75°	133	235	360	449	480	141
85°	34	151	288	381	413	37
90°	2	124	257	350	383	3
95°	0	116	249	340	372	0
105°	0	107	227	313	343	0
115°	0	100	206	281	309	0
125°	0	86	184	248	272	0
135°	0	64	148	209	229	0
145°	0	42	103	157	179	0
155°	1	26	64	96	119	0
165°	1	14	29	40	56	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°	681.4	681.4	681.4	681.4	681.4
2.5°	687.9	680.5	684.2	683.3	679.6
5°	686.0	680.5	687.9	687.9	687.9
7.5°	682.3	678.6	688.8	692.5	693.4
10°	676.8	676.8	690.6	696.2	698.0
12.5°	669.4	672.2	690.6	698.9	703.5
15°	661.1	666.7	690.6	703.5	708.2
17.5°	651.0	660.2	688.8	704.5	710.9
20°	639.0	652.8	686.0	704.5	712.8
22.5°	626.1	643.6	682.3	702.6	712.8
25°	612.3	632.5	676.8	700.8	711.8
27.5°	595.7	621.5	670.3	698.0	710.9
30°	579.1	608.6	663.0	694.3	708.2
32.5°	560.6	594.7	653.8	688.8	704.5
35°	541.3	580.9	643.6	683.3	699.9
37.5°	521.9	564.3	633.5	675.9	694.3
40°	500.7	547.7	621.5	666.7	686.0
42.5°	485.0	530.2	608.6	657.4	677.7
45°	455.5	517.3	593.8	645.5	667.6
47.5°	432.5	492.4	579.1	633.5	656.5
50°	417.7	472.1	561.5	619.6	643.6
52.5°	382.7	458.3	544.9	605.8	631.6
55°	368.8	430.6	526.5	591.1	616.9
57.5°	331.0	411.2	508.1	574.5	601.2
60°	312.6	384.5	487.8	557.9	585.5
62.5°	284.0	361.5	467.5	539.4	568.0
65°	252.6	336.6	445.4	521.9	551.4
67.5°	223.1	311.7	424.2	503.5	534.8
70°	194.6	285.8	402.0	485.0	516.4
72.5°	161.4	260.0	380.8	467.5	498.8
75°	132.8	235.1	360.5	449.1	480.4
77.5°	105.1	211.2	341.2	432.5	463.8
80°	79.3	188.1	321.8	414.9	447.2
82.5°	55.3	168.7	304.3	398.3	429.7
85°	34.1	151.2	287.7	380.8	413.1
87.5°	15.7	135.5	271.1	364.2	397.4
90°	1.8	123.6	257.3	350.4	382.7
92.5°	0.9	119.9	251.7	343.9	375.3
95°	0.0	116.2	249.0	340.2	371.6
97.5°	0.0	112.5	242.5	334.7	367.0
100°	0.0	110.6	237.9	326.4	357.8
102.5°	0.0	107.9	232.4	319.0	350.4
105°	0.0	107.0	226.8	312.6	343.0
107.5°	0.0	105.1	221.3	304.3	334.7
110°	0.0	103.3	216.7	296.9	326.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	101.4	212.1	289.5	318.1
115°	0.0	99.6	206.5	281.2	308.9
117.5°	0.0	96.8	201.0	272.9	300.6
120°	0.0	93.1	195.5	265.6	291.4
122.5°	0.0	89.4	189.9	256.3	281.2
125°	0.0	85.8	183.5	248.0	272.0
127.5°	0.0	80.2	176.1	238.8	260.9
130°	0.0	74.7	166.9	229.6	250.8
132.5°	0.9	69.2	157.7	219.5	240.7
135°	0.0	63.6	147.5	209.3	228.7
137.5°	0.0	59.0	136.5	198.2	216.7
140°	0.0	53.5	125.4	185.3	204.7
142.5°	0.0	47.0	114.3	171.5	191.8
145°	0.0	41.5	103.3	156.8	178.9
147.5°	0.9	36.9	93.1	141.1	165.1
150°	0.9	33.2	83.0	125.4	149.4
152.5°	0.9	29.5	72.8	110.6	133.7
155°	0.9	25.8	63.6	95.9	118.9
157.5°	0.9	22.1	53.5	81.1	103.3
160°	0.9	19.4	44.3	68.2	88.5
162.5°	0.9	16.6	36.0	53.5	72.8
165°	0.9	13.8	28.6	39.6	56.2
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)