

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-LD5-48HL-SLW-UNV-L935-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-LD5-48HL-SLW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

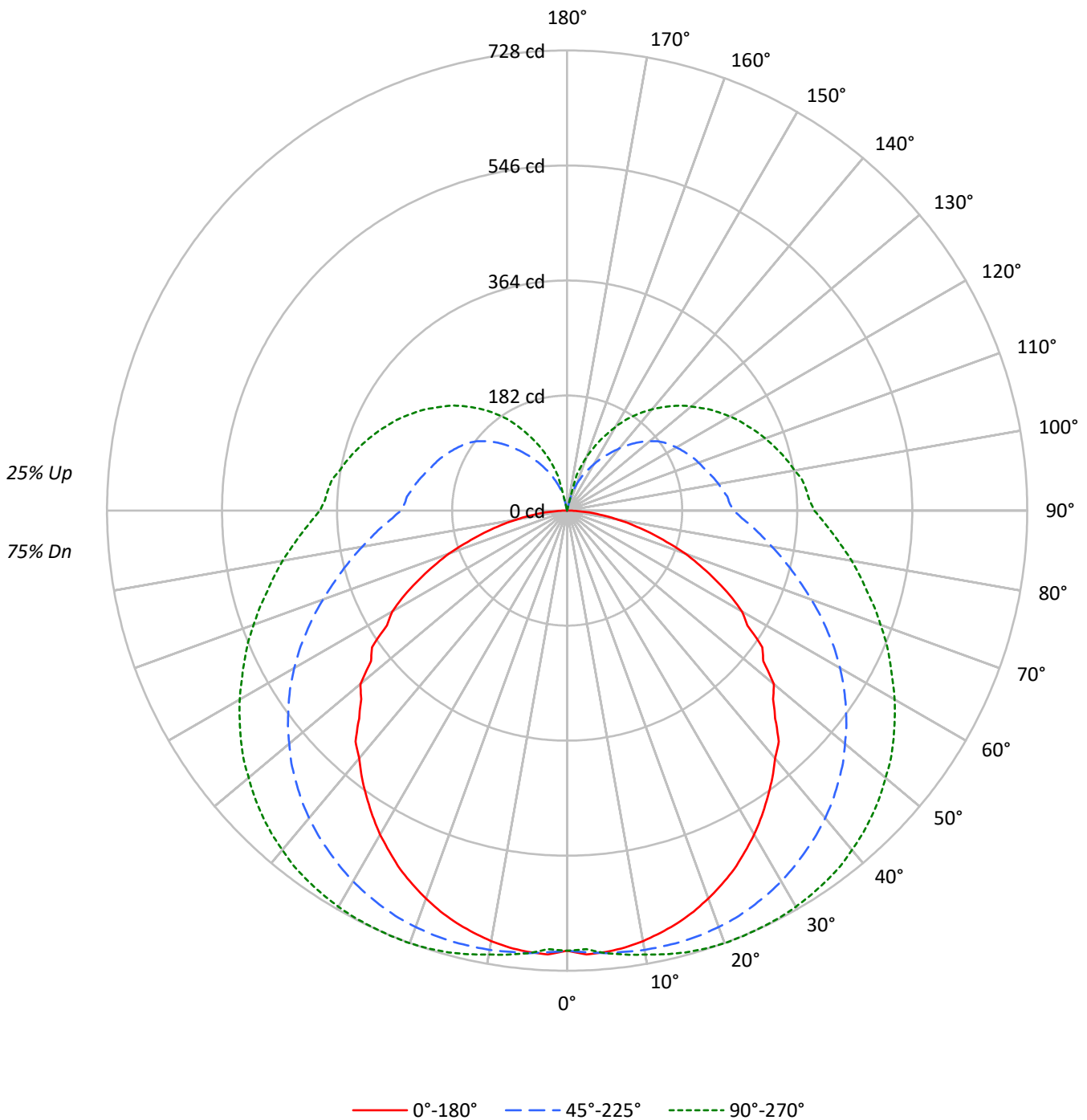
Lumens per Lamp: N/A
Luminaire Lumens: 4010.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	5627	5627	5627
5°	5672	5562	5521
10°	5644	5512	5490
15°	5605	5482	5501
20°	5552	5458	5511
25°	5499	5438	5520
30°	5424	5422	5550
35°	5340	5401	5587
40°	5260	5397	5624
45°	5159	5386	5669
50°	5174	5374	5713
55°	5083	5373	5782
60°	4897	5378	5861
65°	4627	5383	5969
70°	4326	5422	6138
75°	3794	5549	6384
80°	3202	5818	6797
85°	2384	6359	7397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	1.7
10°-20°	198.4	4.9
20°-30°	315.3	7.9
30°-40°	404.7	10.1
40°-50°	456.9	11.4
50°-60°	466.3	11.6
60°-70°	431.9	10.8
70°-80°	365.7	9.1
80°-90°	291.9	7.3
90°-100°	247.9	6.2
100°-110°	220.8	5.5
110°-120°	188.1	4.7
120°-130°	149.4	3.7
130°-140°	106.0	2.6
140°-150°	63.3	1.6
150°-160°	29.5	0.7
160°-170°	7.0	0.2
170°-180°	0.0	0.0
0°-30°	580.6	14.5
0°-40°	985.2	24.6
0°-60°	1908.4	47.6
0°-90°	2998.0	74.8
90°-120°	656.8	16.4
90°-150°	975.5	24.3
90°-180°	1012.0	25.2
0°-180°	4010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	701	695	703	703	703	67
15°	676	681	706	719	724	191
25°	626	646	692	716	727	288
35°	553	594	658	698	715	346
45°	466	529	607	660	682	362
55°	377	440	538	604	630	331
65°	258	344	455	533	564	256
75°	136	240	368	459	491	144
85°	35	154	294	389	422	38
90°	2	126	263	358	391	3
95°	0	119	254	348	380	0
105°	0	109	232	319	350	0
115°	0	102	211	287	316	0
125°	0	88	188	254	278	0
135°	0	65	151	214	234	0
145°	0	42	106	160	183	0
155°	1	26	65	98	122	0
165°	1	14	29	40	58	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°	696.3	696.3	696.3	696.3	696.3
2.5°	702.9	695.4	699.2	698.2	694.5
5°	701.1	695.4	702.9	702.9	702.9
7.5°	697.3	693.5	703.9	707.7	708.6
10°	691.6	691.6	705.8	711.4	713.3
12.5°	684.1	686.9	705.8	714.3	719.0
15°	675.6	681.3	705.8	719.0	723.7
17.5°	665.3	674.7	703.9	719.9	726.5
20°	653.0	667.1	701.1	719.9	728.4
22.5°	639.8	657.7	697.3	718.0	728.4
25°	625.7	646.4	691.6	716.1	727.4
27.5°	608.7	635.1	685.0	713.3	726.5
30°	591.8	621.9	677.5	709.5	723.7
32.5°	572.9	607.8	668.1	703.9	719.9
35°	553.1	593.6	657.7	698.2	715.2
37.5°	533.3	576.7	647.3	690.7	709.5
40°	511.7	559.7	635.1	681.3	701.1
42.5°	495.6	541.8	621.9	671.8	692.6
45°	465.5	528.6	606.8	659.6	682.2
47.5°	441.9	503.2	591.8	647.3	670.9
50°	426.9	482.4	573.9	633.2	657.7
52.5°	391.0	468.3	556.9	619.1	645.5
55°	376.9	440.0	538.0	604.0	630.4
57.5°	338.3	420.3	519.2	587.0	614.4
60°	319.4	392.9	498.5	570.1	598.4
62.5°	290.2	369.4	477.7	551.2	580.4
65°	258.2	343.9	455.1	533.3	563.5
67.5°	228.0	318.5	433.5	514.5	546.5
70°	198.8	292.1	410.8	495.6	527.7
72.5°	164.9	265.7	389.2	477.7	509.8
75°	135.7	240.3	368.4	458.9	490.9
77.5°	107.4	215.8	348.6	441.9	474.0
80°	81.0	192.2	328.9	424.0	457.0
82.5°	56.5	172.4	311.0	407.1	439.1
85°	34.9	154.5	294.0	389.2	422.1
87.5°	16.0	138.5	277.0	372.2	406.1
90°	1.9	126.3	262.9	358.1	391.0
92.5°	0.9	122.5	257.2	351.5	383.5
95°	0.0	118.7	254.4	347.7	379.7
97.5°	0.0	115.0	247.8	342.0	375.0
100°	0.0	113.1	243.1	333.6	365.6
102.5°	0.0	110.2	237.5	326.0	358.1
105°	0.0	109.3	231.8	319.4	350.5
107.5°	0.0	107.4	226.1	311.0	342.0
110°	0.0	105.5	221.4	303.4	333.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	103.7	216.7	295.9	325.1
115°	0.0	101.8	211.1	287.4	315.7
117.5°	0.0	98.9	205.4	278.9	307.2
120°	0.0	95.2	199.8	271.4	297.8
122.5°	0.0	91.4	194.1	262.0	287.4
125°	0.0	87.6	187.5	253.5	278.0
127.5°	0.0	82.0	180.0	244.1	266.7
130°	0.0	76.3	170.6	234.6	256.3
132.5°	0.9	70.7	161.1	224.3	245.9
135°	0.0	65.0	150.8	213.9	233.7
137.5°	0.0	60.3	139.5	202.6	221.4
140°	0.0	54.7	128.2	189.4	209.2
142.5°	0.0	48.1	116.8	175.3	196.0
145°	0.0	42.4	105.5	160.2	182.8
147.5°	0.9	37.7	95.2	144.2	168.7
150°	0.9	33.9	84.8	128.2	152.7
152.5°	0.9	30.2	74.4	113.1	136.6
155°	0.9	26.4	65.0	98.0	121.6
157.5°	0.9	22.6	54.7	82.9	105.5
160°	0.9	19.8	45.2	69.7	90.5
162.5°	0.9	17.0	36.7	54.7	74.4
165°	0.9	14.1	29.2	40.5	57.5
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)