

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: P284515

Luminaire Tested: **4SNLED-LD5-57HL-SLW-UNV-L835-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: P284515
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: 4SNLED-LD5-57HL-SLW-UNV-L835-CD1-U
Description: 4FT 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: 5699.0 lumens
Efficiency: N/A
Efficacy: 118.7 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

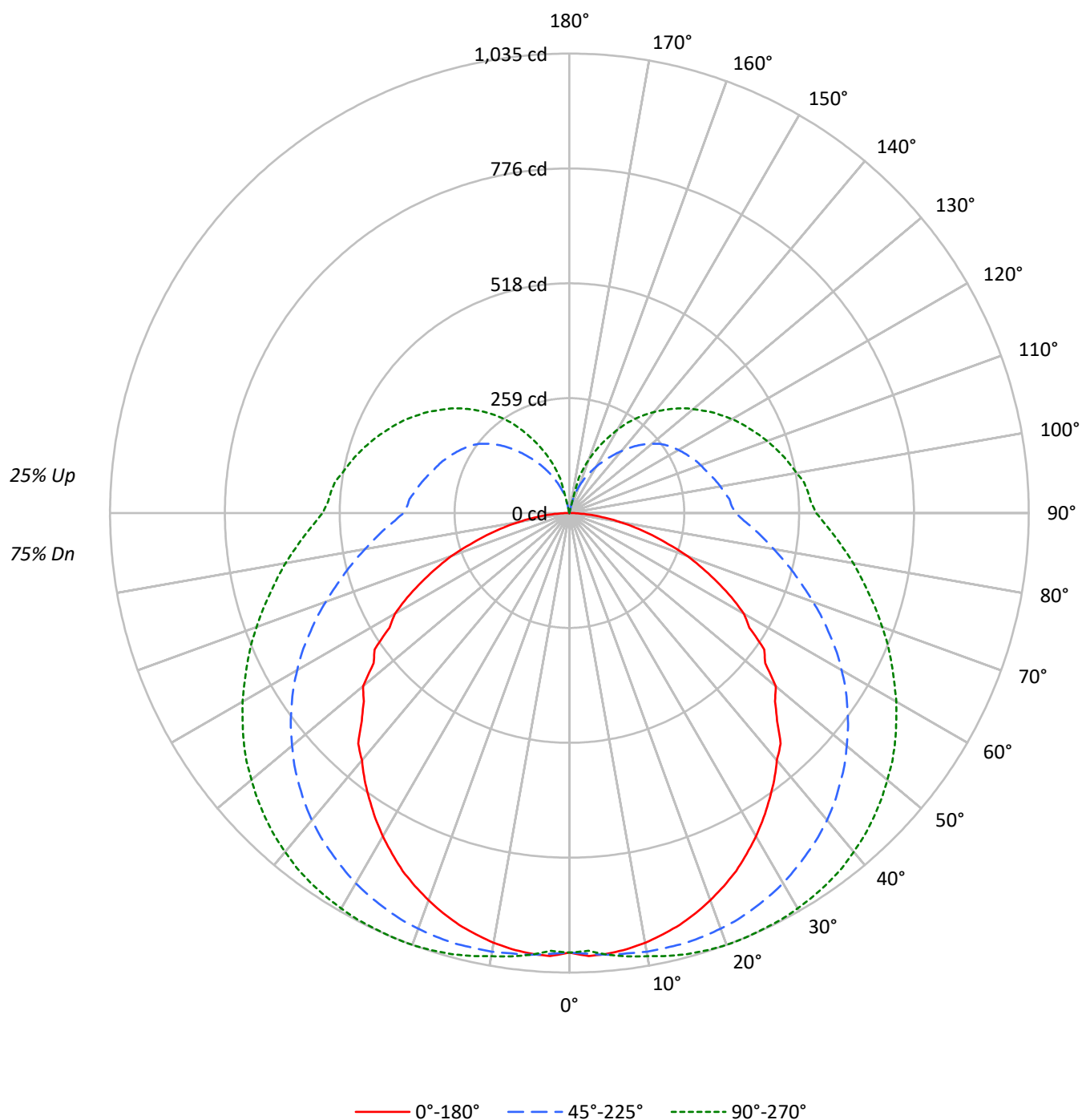
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7999	7999	7999
5°	8060	7903	7845
10°	8021	7835	7802
15°	7966	7793	7818
20°	7891	7756	7833
25°	7815	7728	7845
30°	7708	7704	7888
35°	7588	7677	7942
40°	7474	7672	7993
45°	7333	7653	8057
50°	7355	7637	8121
55°	7224	7638	8217
60°	6959	7642	8328
65°	6573	7652	8483
70°	6149	7709	8722
75°	5397	7886	9075
80°	4558	8267	9659
85°	3382	9037	10513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	1.7
10°-20°	281.9	4.9
20°-30°	448.1	7.9
30°-40°	575.1	10.1
40°-50°	649.4	11.4
50°-60°	662.6	11.6
60°-70°	613.9	10.8
70°-80°	519.7	9.1
80°-90°	414.9	7.3
90°-100°	352.3	6.2
100°-110°	313.9	5.5
110°-120°	267.3	4.7
120°-130°	212.3	3.7
130°-140°	150.6	2.6
140°-150°	89.9	1.6
150°-160°	41.9	0.7
160°-170°	10.0	0.2
170°-180°	0.0	0.0
0°-30°	825.1	14.5
0°-40°	1400.2	24.6
0°-60°	2712.2	47.6
0°-90°	4260.7	74.8
90°-120°	933.5	16.4
90°-150°	1386.4	24.3
90°-180°	1438.0	25.2
0°-180°	5699.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	990	990	990	990	990	
5°	996	988	999	999	999	95
15°	960	968	1003	1022	1028	271
25°	889	919	983	1018	1034	409
35°	786	844	935	992	1017	492
45°	662	751	862	937	970	514
55°	536	626	765	858	896	470
65°	367	489	647	758	801	364
75°	193	342	524	652	698	205
85°	50	220	418	553	600	54
90°	2	180	374	509	556	4
95°	0	169	362	494	540	0
105°	0	155	330	454	498	0
115°	0	145	300	408	448	0
125°	0	125	266	360	395	0
135°	0	92	214	304	332	0
145°	0	60	150	228	260	1
155°	1	38	92	139	173	1
165°	1	20	42	58	82	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°	989.8	989.8	989.8	989.8	989.8
2.5°	998.8	988.4	993.8	992.3	986.9
5°	996.3	988.4	998.8	998.8	998.8
7.5°	990.9	985.5	1000.3	1005.7	1007.2
10°	982.9	982.9	1003.2	1011.1	1013.7
12.5°	972.1	976.1	1003.2	1015.1	1021.6
15°	960.2	968.1	1003.2	1021.6	1028.5
17.5°	945.4	958.7	1000.3	1023.1	1032.5
20°	928.0	948.3	996.3	1023.1	1035.3
22.5°	909.2	934.9	990.9	1020.5	1035.3
25°	889.3	918.6	982.9	1017.6	1033.9
27.5°	865.1	902.7	973.5	1013.7	1032.5
30°	840.9	883.9	962.7	1008.2	1028.5
32.5°	814.2	863.7	949.3	1000.3	1023.1
35°	786.0	843.8	934.9	992.3	1016.6
37.5°	757.8	819.6	920.1	981.5	1008.2
40°	727.1	795.4	902.7	968.1	996.3
42.5°	704.3	770.1	883.9	954.8	984.4
45°	661.7	751.3	862.2	937.4	969.6
47.5°	628.1	715.2	840.9	920.1	953.3
50°	606.8	685.5	815.6	899.8	934.9
52.5°	555.8	665.7	791.4	880.0	917.2
55°	535.6	625.5	764.7	858.3	895.9
57.5°	480.6	597.4	737.9	834.4	873.1
60°	453.9	558.3	708.3	810.2	850.3
62.5°	412.3	525.1	679.0	783.5	825.0
65°	366.8	488.9	646.9	757.8	800.8
67.5°	324.2	452.8	616.1	731.1	776.6
70°	282.6	415.2	584.0	704.3	749.9
72.5°	234.2	377.6	552.9	679.0	724.6
75°	193.0	341.5	523.6	652.3	697.8
77.5°	152.5	306.8	495.4	628.1	673.6
80°	115.3	273.2	467.3	602.8	649.4
82.5°	80.2	245.0	442.0	578.6	624.1
85°	49.5	219.7	417.8	552.9	599.9
87.5°	22.8	196.9	393.5	529.1	577.1
90°	2.5	179.6	373.7	508.8	555.8
92.5°	1.4	174.2	365.7	499.4	545.0
95°	0.0	168.8	361.7	494.0	539.5
97.5°	0.0	163.3	352.3	486.1	533.0
100°	0.0	160.8	345.5	474.1	519.7
102.5°	0.0	156.8	337.5	463.3	508.8
105°	0.0	155.4	329.6	453.9	498.3
107.5°	0.0	152.5	321.3	442.0	486.1
110°	0.0	150.0	314.8	431.1	474.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	147.4	307.9	420.6	461.8
115°	0.0	144.6	299.9	408.4	448.5
117.5°	0.0	140.6	292.0	396.4	436.5
120°	0.0	135.2	284.0	385.6	423.2
122.5°	0.0	129.7	275.7	372.2	408.4
125°	0.0	124.7	266.3	360.3	395.0
127.5°	0.0	116.4	255.9	346.9	379.1
130°	0.0	108.4	242.5	333.5	364.3
132.5°	1.4	100.5	229.1	318.7	349.5
135°	0.0	92.5	214.3	303.9	332.1
137.5°	0.0	85.6	198.0	288.0	314.8
140°	0.0	77.7	182.1	269.2	297.4
142.5°	0.0	68.3	166.2	249.0	278.6
145°	0.0	60.3	150.0	227.7	259.8
147.5°	1.4	53.5	135.2	204.9	239.6
150°	1.4	48.1	120.7	182.1	216.8
152.5°	1.4	43.0	105.9	160.8	194.1
155°	1.4	37.6	92.5	139.1	172.7
157.5°	1.4	32.2	77.7	117.8	150.0
160°	1.4	28.2	64.3	99.0	128.6
162.5°	1.4	24.2	52.4	77.7	105.9
165°	1.4	20.2	41.6	57.5	81.7
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)