

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: P284467

Luminaire Tested: **4SNLED-LD5-45SL-SLW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284467
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-LD5-45SL-SLW-UNV-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4407.0 lumens
Efficiency: N/A
Efficacy: 107.5 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

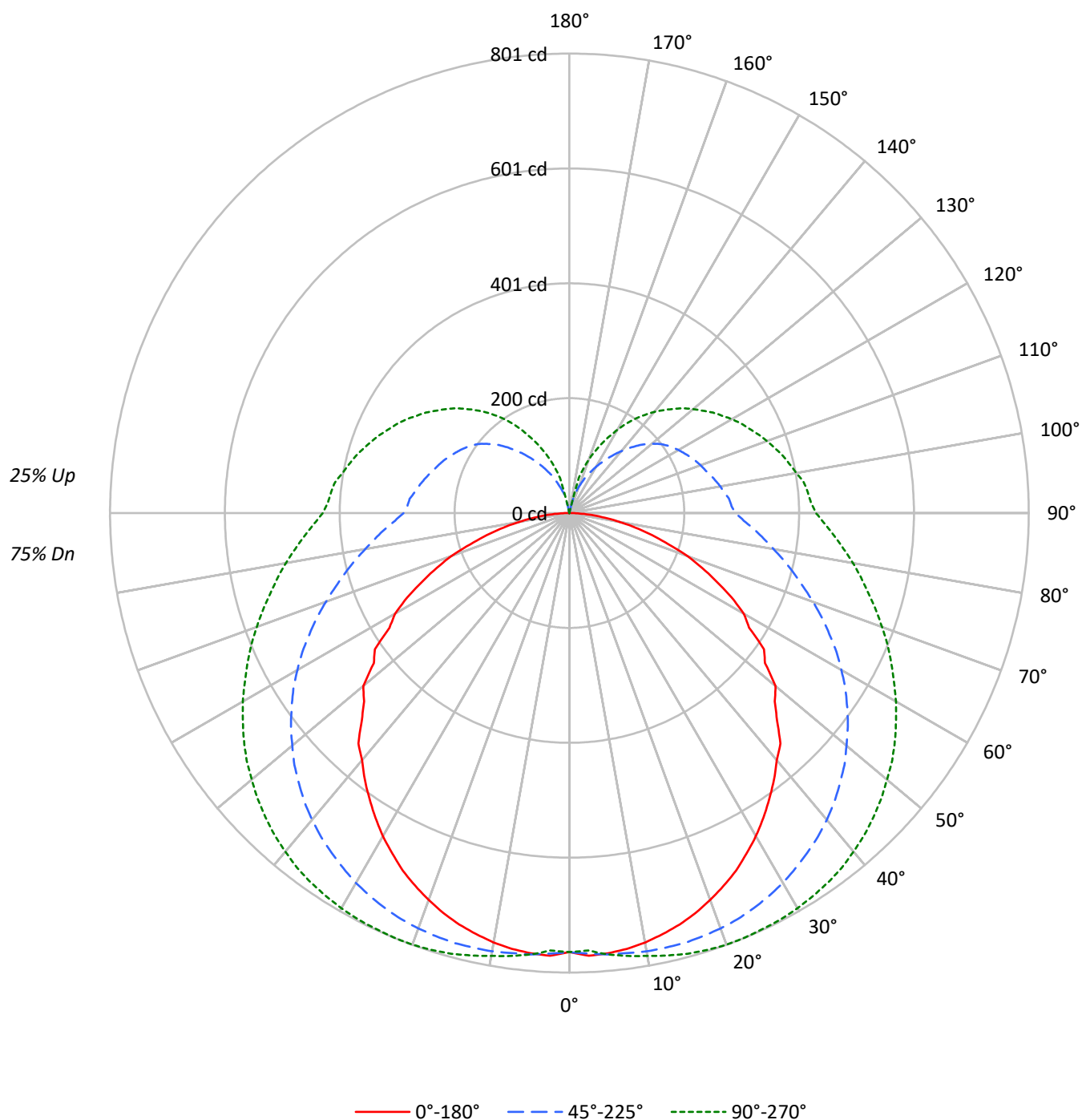
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	6185	6185	6185
5°	6232	6112	6066
10°	6203	6059	6033
15°	6160	6026	6045
20°	6102	5998	6057
25°	6044	5976	6067
30°	5961	5958	6099
35°	5868	5936	6141
40°	5780	5933	6180
45°	5671	5919	6230
50°	5687	5905	6279
55°	5585	5906	6354
60°	5382	5909	6440
65°	5082	5916	6561
70°	4754	5961	6745
75°	4172	6098	7017
80°	3522	6391	7469
85°	2617	6987	8130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	1.7
10°-20°	218.0	4.9
20°-30°	346.5	7.9
30°-40°	444.7	10.1
40°-50°	502.2	11.4
50°-60°	512.4	11.6
60°-70°	474.7	10.8
70°-80°	401.9	9.1
80°-90°	320.8	7.3
90°-100°	272.4	6.2
100°-110°	242.7	5.5
110°-120°	206.7	4.7
120°-130°	164.2	3.7
130°-140°	116.5	2.6
140°-150°	69.5	1.6
150°-160°	32.4	0.7
160°-170°	7.7	0.2
170°-180°	0.0	0.0
0°-30°	638.1	14.5
0°-40°	1082.8	24.6
0°-60°	2097.4	47.6
0°-90°	3294.8	74.8
90°-120°	721.9	16.4
90°-150°	1072.1	24.3
90°-180°	1112.0	25.2
0°-180°	4407.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	770	764	772	772	772	73
15°	742	749	776	790	795	209
25°	688	710	760	787	800	317
35°	608	652	723	767	786	381
45°	512	581	667	725	750	397
55°	414	484	591	664	693	364
65°	284	378	500	586	619	282
75°	149	264	405	504	540	159
85°	38	170	323	428	464	42
90°	2	139	289	394	430	3
95°	0	130	280	382	417	0
105°	0	120	255	351	385	0
115°	0	112	232	316	347	0
125°	0	96	206	279	305	0
135°	0	72	166	235	257	0
145°	0	47	116	176	201	0
155°	1	29	72	108	134	1
165°	1	16	32	44	63	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°	765.4	765.4	765.4	765.4	765.4
2.5°	772.4	764.3	768.5	767.4	763.2
5°	770.4	764.3	772.4	772.4	772.4
7.5°	766.3	762.1	773.5	777.7	778.8
10°	760.1	760.1	775.8	781.9	783.9
12.5°	751.7	754.8	775.8	785.0	790.0
15°	742.5	748.6	775.8	790.0	795.3
17.5°	731.0	741.4	773.5	791.1	798.4
20°	717.6	733.3	770.4	791.1	800.6
22.5°	703.1	722.9	766.3	789.2	800.6
25°	687.7	710.4	760.1	786.9	799.5
27.5°	669.0	698.1	752.8	783.9	798.4
30°	650.3	683.5	744.5	779.7	795.3
32.5°	629.6	667.9	734.1	773.5	791.1
35°	607.8	652.5	722.9	767.4	786.1
37.5°	586.0	633.8	711.5	759.0	779.7
40°	562.3	615.1	698.1	748.6	770.4
42.5°	544.6	595.5	683.5	738.3	761.2
45°	511.7	581.0	666.8	724.9	749.8
47.5°	485.7	553.0	650.3	711.5	737.2
50°	469.2	530.1	630.7	695.8	722.9
52.5°	429.8	514.7	612.0	680.5	709.2
55°	414.1	483.7	591.3	663.7	692.8
57.5°	371.7	461.9	570.6	645.2	675.2
60°	351.0	431.7	547.7	626.5	657.5
62.5°	318.9	406.0	525.1	605.8	638.0
65°	283.6	378.1	500.2	586.0	619.3
67.5°	250.7	350.2	476.5	565.3	600.5
70°	218.5	321.1	451.6	544.6	579.9
72.5°	181.1	292.0	427.6	525.1	560.3
75°	149.2	264.1	404.9	504.4	539.6
77.5°	117.9	237.3	383.1	485.7	520.9
80°	89.1	211.3	361.3	466.1	502.2
82.5°	62.0	189.5	341.8	447.4	482.6
85°	38.3	169.9	323.0	427.6	463.9
87.5°	17.6	152.3	304.3	409.1	446.3
90°	2.0	138.9	289.0	393.5	429.8
92.5°	1.1	134.7	282.8	386.2	421.4
95°	0.0	130.5	279.7	382.0	417.2
97.5°	0.0	126.3	272.5	375.9	412.2
100°	0.0	124.4	267.2	366.6	401.8
102.5°	0.0	121.3	261.0	358.3	393.5
105°	0.0	120.2	254.9	351.0	385.4
107.5°	0.0	117.9	248.4	341.8	375.9
110°	0.0	116.0	243.4	333.4	366.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	114.0	238.1	325.3	357.1
115°	0.0	111.8	231.9	315.8	346.8
117.5°	0.0	108.7	225.8	306.6	337.6
120°	0.0	104.5	219.6	298.2	327.2
122.5°	0.0	100.3	213.2	287.8	315.8
125°	0.0	96.4	206.0	278.6	305.4
127.5°	0.0	90.0	197.9	268.3	293.1
130°	0.0	83.8	187.5	257.9	281.7
132.5°	1.1	77.7	177.2	246.5	270.2
135°	0.0	71.5	165.7	235.0	256.8
137.5°	0.0	66.2	153.1	222.7	243.4
140°	0.0	60.1	140.8	208.2	230.0
142.5°	0.0	52.8	128.5	192.5	215.5
145°	0.0	46.7	116.0	176.1	200.9
147.5°	1.1	41.4	104.5	158.4	185.3
150°	1.1	37.2	93.3	140.8	167.7
152.5°	1.1	33.3	81.9	124.4	150.1
155°	1.1	29.1	71.5	107.6	133.6
157.5°	1.1	24.9	60.1	91.1	116.0
160°	1.1	21.8	49.7	76.6	99.5
162.5°	1.1	18.7	40.5	60.1	81.9
165°	1.1	15.6	32.1	44.4	63.2
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)