

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: P284551

Luminaire Tested: **4SNLED-LD5-46HL-SLW-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284551
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: 45NLED-LD5-46HL-SLW-UNV-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4641.0 lumens
Efficiency: N/A
Efficacy: 125.4 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

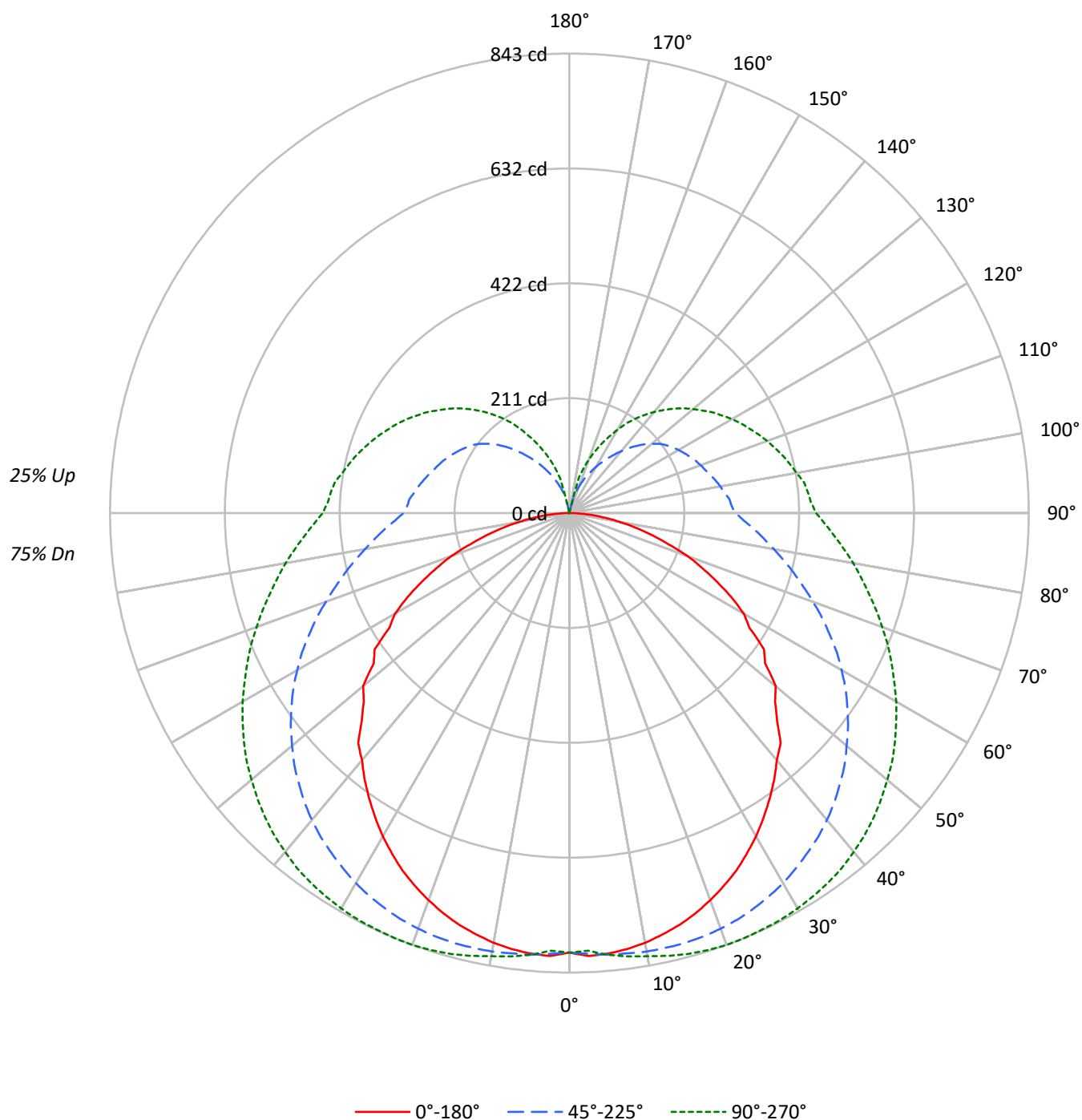
Input Watts (W): 37
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	6514	6514	6514
5°	6564	6436	6388
10°	6533	6380	6353
15°	6487	6345	6366
20°	6426	6317	6379
25°	6365	6294	6389
30°	6277	6274	6423
35°	6179	6252	6467
40°	6086	6247	6509
45°	5971	6233	6561
50°	5989	6219	6613
55°	5882	6219	6691
60°	5667	6223	6782
65°	5353	6231	6908
70°	5007	6278	7102
75°	4393	6422	7390
80°	3712	6731	7865
85°	2753	7359	8561



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	1.7
10°-20°	229.6	4.9
20°-30°	364.9	7.9
30°-40°	468.3	10.1
40°-50°	528.8	11.4
50°-60°	539.6	11.6
60°-70°	499.9	10.8
70°-80°	423.3	9.1
80°-90°	337.8	7.3
90°-100°	286.9	6.2
100°-110°	255.6	5.5
110°-120°	217.7	4.7
120°-130°	172.9	3.7
130°-140°	122.7	2.6
140°-150°	73.2	1.6
150°-160°	34.1	0.7
160°-170°	8.1	0.2
170°-180°	0.0	0.0
0°-30°	671.9	14.5
0°-40°	1140.3	24.6
0°-60°	2208.7	47.6
0°-90°	3469.8	74.8
90°-120°	760.2	16.4
90°-150°	1129.0	24.3
90°-180°	1171.0	25.2
0°-180°	4641.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	806	806	806	806	806	
5°	811	805	813	813	813	77
15°	782	788	817	832	838	221
25°	724	748	800	829	842	333
35°	640	687	761	808	828	401
45°	539	612	702	763	790	418
55°	436	509	623	699	730	383
65°	299	398	527	617	652	296
75°	157	278	426	531	568	167
85°	40	179	340	450	488	44
90°	2	146	304	414	453	3
95°	0	137	295	402	439	0
105°	0	126	268	370	406	0
115°	0	118	244	332	365	0
125°	0	102	217	293	322	0
135°	0	75	174	248	270	0
145°	0	49	122	185	212	0
155°	1	31	75	113	141	1
165°	1	16	34	47	66	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°	806.1	806.1	806.1	806.1	806.1
2.5°	813.4	804.9	809.3	808.1	803.7
5°	811.4	804.9	813.4	813.4	813.4
7.5°	806.9	802.5	814.6	819.0	820.2
10°	800.5	800.5	816.9	823.4	825.5
12.5°	791.6	794.9	816.9	826.7	832.0
15°	781.9	788.4	816.9	832.0	837.5
17.5°	769.9	780.7	814.6	833.1	840.8
20°	755.7	772.2	811.4	833.1	843.1
22.5°	740.4	761.3	806.9	831.1	843.1
25°	724.2	748.1	800.5	828.7	842.0
27.5°	704.5	735.1	792.8	825.5	840.8
30°	684.8	719.8	784.0	821.1	837.5
32.5°	663.0	703.3	773.1	814.6	833.1
35°	640.1	687.2	761.3	808.1	827.8
37.5°	617.1	667.4	749.3	799.3	821.1
40°	592.1	647.7	735.1	788.4	811.4
42.5°	573.6	627.1	719.8	777.5	801.6
45°	538.8	611.8	702.2	763.4	789.6
47.5°	511.5	582.4	684.8	749.3	776.3
50°	494.1	558.3	664.2	732.8	761.3
52.5°	452.6	542.1	644.5	716.6	746.9
55°	436.1	509.4	622.7	698.9	729.5
57.5°	391.4	486.5	600.9	679.5	711.0
60°	369.6	454.7	576.8	659.8	692.5
62.5°	335.8	427.6	553.0	638.0	671.9
65°	298.7	398.2	526.8	617.1	652.1
67.5°	264.0	368.7	501.8	595.3	632.4
70°	230.1	338.1	475.6	573.6	610.6
72.5°	190.7	307.5	450.3	553.0	590.0
75°	157.1	278.1	426.4	531.2	568.3
77.5°	124.2	249.9	403.5	511.5	548.6
80°	93.9	222.5	380.5	490.9	528.8
82.5°	65.3	199.5	359.9	471.2	508.2
85°	40.3	178.9	340.2	450.3	488.5
87.5°	18.5	160.4	320.5	430.8	470.0
90°	2.1	146.3	304.3	414.4	452.6
92.5°	1.2	141.8	297.8	406.7	443.8
95°	0.0	137.4	294.6	402.3	439.4
97.5°	0.0	133.0	286.9	395.8	434.1
100°	0.0	131.0	281.3	386.1	423.2
102.5°	0.0	127.7	274.9	377.3	414.4
105°	0.0	126.5	268.4	369.6	405.8
107.5°	0.0	124.2	261.6	359.9	395.8
110°	0.0	122.1	256.3	351.1	386.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	120.1	250.7	342.6	376.1
115°	0.0	117.7	244.3	332.5	365.2
117.5°	0.0	114.5	237.8	322.8	355.5
120°	0.0	110.1	231.3	314.0	344.6
122.5°	0.0	105.6	224.5	303.1	332.5
125°	0.0	101.5	216.9	293.4	321.7
127.5°	0.0	94.8	208.4	282.5	308.7
130°	0.0	88.3	197.5	271.6	296.6
132.5°	1.2	81.8	186.6	259.6	284.6
135°	0.0	75.3	174.5	247.5	270.5
137.5°	0.0	69.7	161.3	234.5	256.3
140°	0.0	63.3	148.3	219.2	242.2
142.5°	0.0	55.6	135.4	202.8	226.9
145°	0.0	49.1	122.1	185.4	211.6
147.5°	1.2	43.6	110.1	166.9	195.1
150°	1.2	39.1	98.3	148.3	176.6
152.5°	1.2	35.0	86.2	131.0	158.0
155°	1.2	30.6	75.3	113.3	140.7
157.5°	1.2	26.2	63.3	95.9	122.1
160°	1.2	23.0	52.4	80.6	104.8
162.5°	1.2	19.7	42.7	63.3	86.2
165°	1.2	16.5	33.8	46.8	66.5
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)