

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: P284473

Luminaire Tested: **4SNLED-LD5-46HL-SLW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284473
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-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4486.0 lumens
Efficiency: N/A
Efficacy: 121.2 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

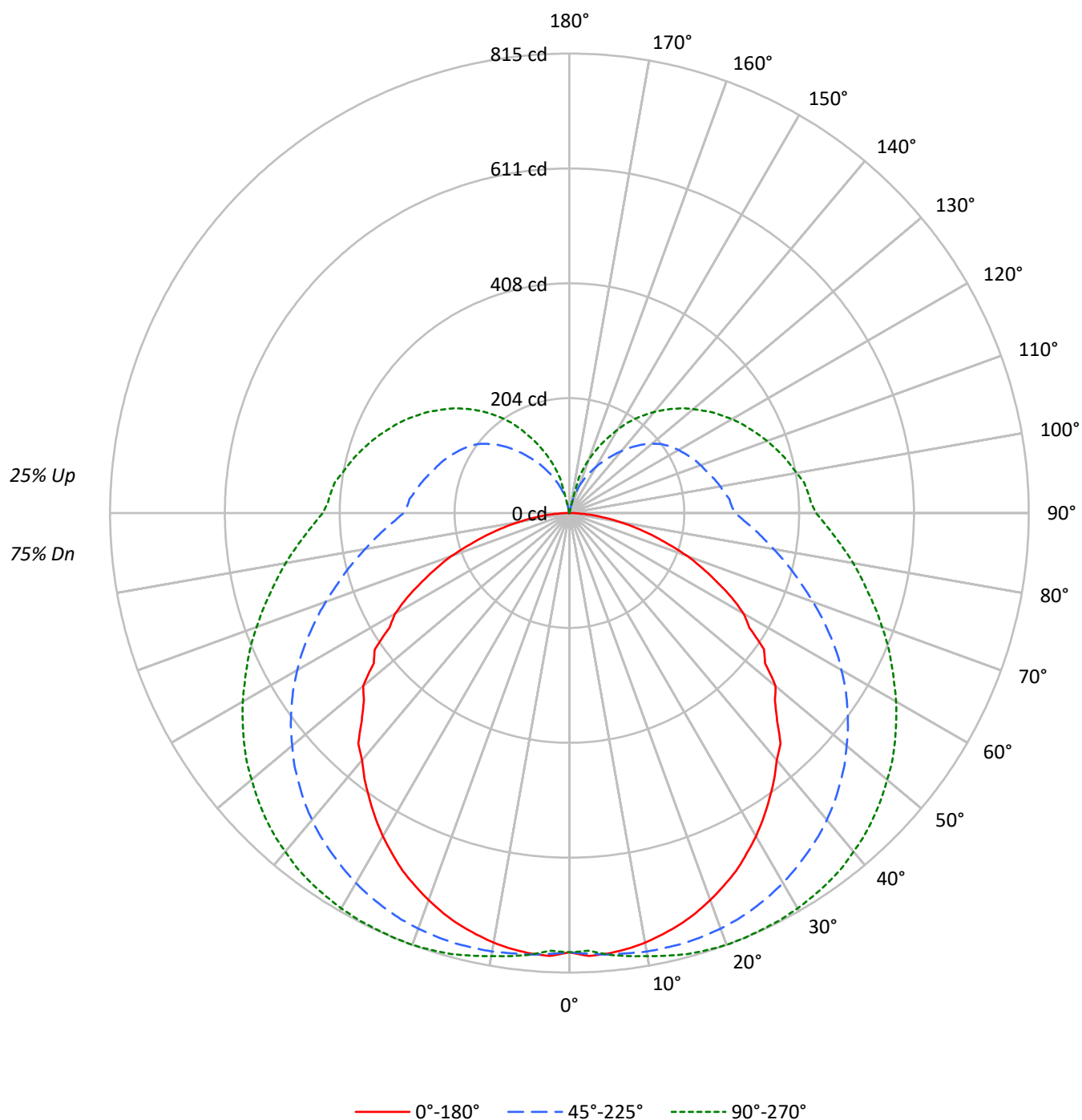
Input Watts (W): 37
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	6296	6296	6296
5°	6345	6221	6175
10°	6314	6167	6141
15°	6271	6134	6154
20°	6211	6106	6166
25°	6153	6083	6175
30°	6067	6064	6209
35°	5973	6043	6251
40°	5883	6039	6292
45°	5771	6024	6342
50°	5789	6011	6392
55°	5686	6012	6468
60°	5478	6015	6555
65°	5174	6023	6678
70°	4839	6068	6866
75°	4247	6208	7143
80°	3585	6506	7603
85°	2664	7112	8276



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	1.7
10°-20°	221.9	4.9
20°-30°	352.7	7.9
30°-40°	452.7	10.1
40°-50°	511.2	11.4
50°-60°	521.6	11.6
60°-70°	483.2	10.8
70°-80°	409.1	9.1
80°-90°	326.6	7.3
90°-100°	277.3	6.2
100°-110°	247.1	5.5
110°-120°	210.4	4.7
120°-130°	167.1	3.7
130°-140°	118.6	2.6
140°-150°	70.8	1.6
150°-160°	33.0	0.7
160°-170°	7.8	0.2
170°-180°	0.0	0.0
0°-30°	649.5	14.5
0°-40°	1102.2	24.6
0°-60°	2135.0	47.6
0°-90°	3353.9	74.8
90°-120°	734.8	16.4
90°-150°	1091.3	24.3
90°-180°	1132.0	25.2
0°-180°	4486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	779	779	779	779	779	
5°	784	778	786	786	786	74
15°	756	762	790	804	810	213
25°	700	723	774	801	814	322
35°	619	664	736	781	800	387
45°	521	591	679	738	763	404
55°	422	492	602	676	705	370
65°	289	385	509	596	630	287
75°	152	269	412	513	549	162
85°	39	173	329	435	472	43
90°	2	141	294	400	438	3
95°	0	133	285	389	425	0
105°	0	122	259	357	392	0
115°	0	114	236	321	353	0
125°	0	98	210	284	311	0
135°	0	73	169	239	261	0
145°	0	48	118	179	204	0
155°	1	30	73	110	136	1
165°	1	16	33	45	64	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°	779.1	779.1	779.1	779.1	779.1
2.5°	786.2	778.0	782.3	781.1	776.9
5°	784.3	778.0	786.2	786.2	786.2
7.5°	780.0	775.7	787.4	791.6	792.8
10°	773.7	773.7	789.7	795.9	797.9
12.5°	765.2	768.3	789.7	799.0	804.2
15°	755.8	762.1	789.7	804.2	809.6
17.5°	744.1	754.7	787.4	805.3	812.7
20°	730.5	746.4	784.3	805.3	815.0
22.5°	715.7	735.9	780.0	803.3	815.0
25°	700.1	723.1	773.7	801.0	813.8
27.5°	681.0	710.6	766.3	797.9	812.7
30°	661.9	695.8	757.8	793.6	809.6
32.5°	640.9	679.9	747.3	787.4	805.3
35°	618.7	664.2	735.9	781.1	800.2
37.5°	596.5	645.2	724.2	772.6	793.6
40°	572.3	626.1	710.6	762.1	784.3
42.5°	554.4	606.2	695.8	751.5	774.9
45°	520.8	591.4	678.7	737.9	763.2
47.5°	494.4	562.9	661.9	724.2	750.4
50°	477.6	539.6	642.0	708.3	735.9
52.5°	437.5	524.0	623.0	692.7	722.0
55°	421.6	492.4	601.9	675.6	705.2
57.5°	378.3	470.2	580.9	656.8	687.3
60°	357.3	439.5	557.5	637.8	669.3
62.5°	324.6	413.3	534.5	616.7	649.4
65°	288.7	384.9	509.2	596.5	630.4
67.5°	255.2	356.4	485.0	575.5	611.3
70°	222.4	326.8	459.7	554.4	590.3
72.5°	184.3	297.3	435.2	534.5	570.3
75°	151.9	268.8	412.2	513.4	549.3
77.5°	120.0	241.5	390.0	494.4	530.2
80°	90.7	215.1	367.8	474.5	511.2
82.5°	63.1	192.9	347.9	455.4	491.3
85°	39.0	173.0	328.8	435.2	472.2
87.5°	17.9	155.0	309.8	416.4	454.3
90°	2.0	141.4	294.1	400.5	437.5
92.5°	1.1	137.1	287.9	393.1	429.0
95°	0.0	132.8	284.7	388.9	424.7
97.5°	0.0	128.6	277.3	382.6	419.6
100°	0.0	126.6	271.9	373.2	409.1
102.5°	0.0	123.5	265.7	364.7	400.5
105°	0.0	122.3	259.4	357.3	392.3
107.5°	0.0	120.0	252.9	347.9	382.6
110°	0.0	118.1	247.8	339.4	373.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	116.1	242.4	331.1	363.5
115°	0.0	113.8	236.1	321.4	353.0
117.5°	0.0	110.7	229.8	312.1	343.6
120°	0.0	106.4	223.6	303.5	333.1
122.5°	0.0	102.1	217.0	293.0	321.4
125°	0.0	98.1	209.6	283.6	310.9
127.5°	0.0	91.6	201.4	273.1	298.4
130°	0.0	85.3	190.9	262.6	286.7
132.5°	1.1	79.1	180.3	250.9	275.1
135°	0.0	72.8	168.7	239.2	261.4
137.5°	0.0	67.4	155.9	226.7	247.8
140°	0.0	61.2	143.4	211.9	234.1
142.5°	0.0	53.8	130.9	196.0	219.3
145°	0.0	47.5	118.1	179.2	204.5
147.5°	1.1	42.1	106.4	161.3	188.6
150°	1.1	37.8	95.0	143.4	170.7
152.5°	1.1	33.9	83.3	126.6	152.8
155°	1.1	29.6	72.8	109.5	136.0
157.5°	1.1	25.3	61.2	92.7	118.1
160°	1.1	22.2	50.6	77.9	101.3
162.5°	1.1	19.1	41.2	61.2	83.3
165°	1.1	15.9	32.7	45.2	64.3
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)