

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: P284512

Luminaire Tested: **4SNLED-LD5-46HL-SLW-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284512
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-L835-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4564.0 lumens
Efficiency: N/A
Efficacy: 123.4 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

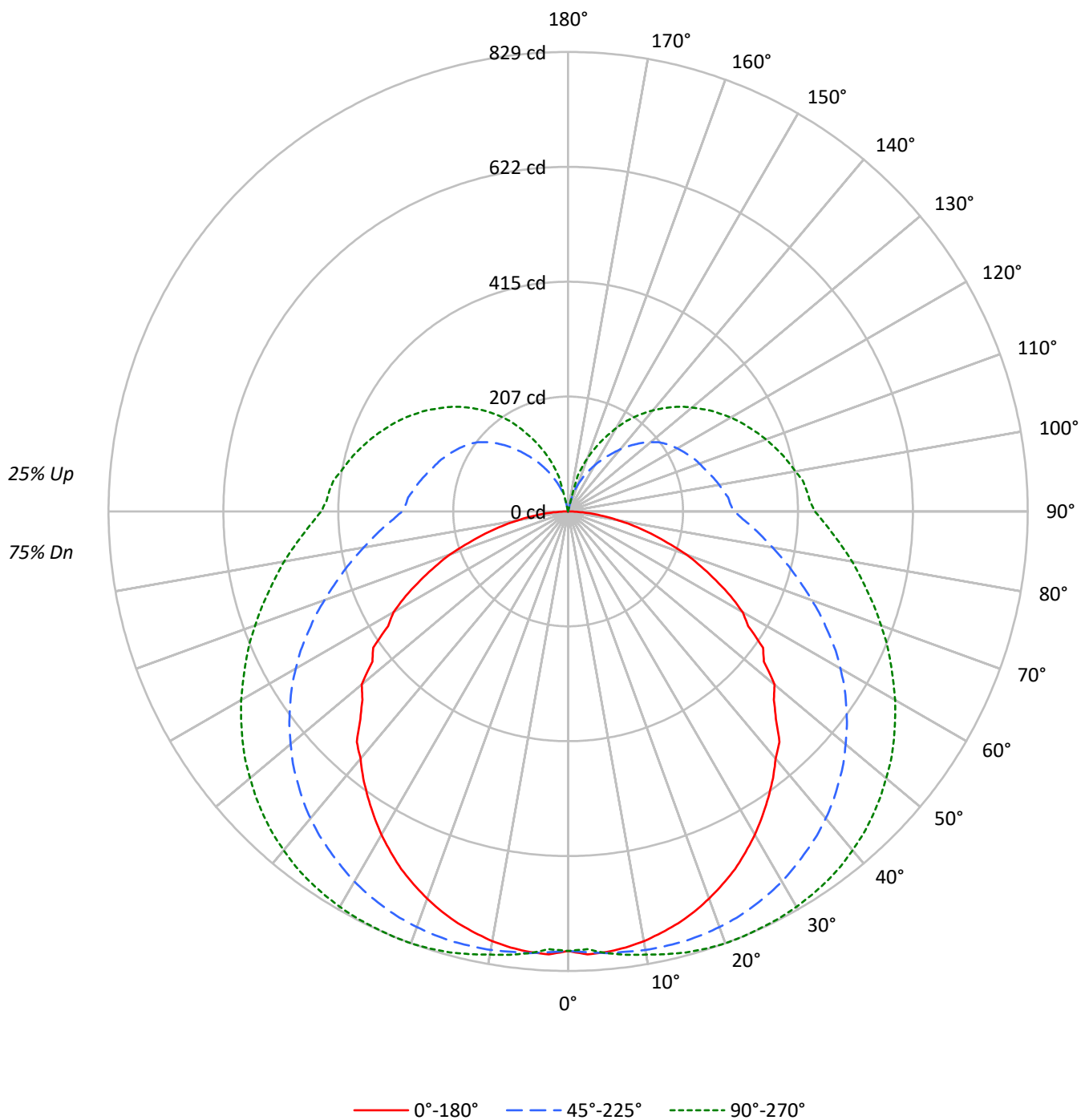
Input Watts (W): 37
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	6406	6406	6406
5°	6455	6329	6282
10°	6424	6274	6248
15°	6379	6241	6261
20°	6319	6212	6273
25°	6259	6189	6283
30°	6172	6170	6316
35°	6077	6148	6360
40°	5986	6144	6401
45°	5872	6129	6452
50°	5889	6116	6503
55°	5785	6116	6580
60°	5573	6120	6670
65°	5263	6127	6794
70°	4924	6174	6985
75°	4320	6315	7267
80°	3649	6620	7736
85°	2705	7238	8419



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	1.7
10°-20°	225.8	4.9
20°-30°	358.8	7.9
30°-40°	460.5	10.1
40°-50°	520.1	11.4
50°-60°	530.7	11.6
60°-70°	491.6	10.8
70°-80°	416.2	9.1
80°-90°	332.2	7.3
90°-100°	282.1	6.2
100°-110°	251.4	5.5
110°-120°	214.1	4.7
120°-130°	170.0	3.7
130°-140°	120.6	2.6
140°-150°	72.0	1.6
150°-160°	33.6	0.7
160°-170°	8.0	0.2
170°-180°	0.0	0.0
0°-30°	660.8	14.5
0°-40°	1121.3	24.6
0°-60°	2172.1	47.6
0°-90°	3412.2	74.8
90°-120°	747.6	16.4
90°-150°	1110.3	24.3
90°-180°	1152.0	25.2
0°-180°	4564.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	793	793	793	793	793	
5°	798	792	800	800	800	76
15°	769	775	803	818	824	217
25°	712	736	787	815	828	328
35°	630	676	749	795	814	394
45°	530	602	690	751	776	411
55°	429	501	612	687	717	377
65°	294	392	518	607	641	292
75°	154	274	419	522	559	164
85°	40	176	335	443	480	43
90°	2	144	299	408	445	3
95°	0	135	290	396	432	0
105°	0	124	264	364	399	0
115°	0	116	240	327	359	0
125°	0	100	213	288	316	0
135°	0	74	172	243	266	0
145°	0	48	120	182	208	0
155°	1	30	74	111	138	1
165°	1	16	33	46	65	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°	792.7	792.7	792.7	792.7	792.7
2.5°	799.9	791.5	795.9	794.7	790.4
5°	797.9	791.5	799.9	799.9	799.9
7.5°	793.5	789.2	801.1	805.4	806.6
10°	787.2	787.2	803.4	809.8	811.8
12.5°	778.5	781.7	803.4	812.9	818.1
15°	768.9	775.3	803.4	818.1	823.6
17.5°	757.1	767.8	801.1	819.3	826.8
20°	743.2	759.4	797.9	819.3	829.1
22.5°	728.1	748.7	793.5	817.3	829.1
25°	712.2	735.7	787.2	815.0	828.0
27.5°	692.8	722.9	779.7	811.8	826.8
30°	673.4	707.9	771.0	807.4	823.6
32.5°	652.0	691.7	760.3	801.1	819.3
35°	629.5	675.8	748.7	794.7	814.1
37.5°	606.9	656.4	736.8	786.0	807.4
40°	582.3	637.0	722.9	775.3	797.9
42.5°	564.1	616.7	707.9	764.6	788.3
45°	529.9	601.7	690.5	750.7	776.5
47.5°	503.0	572.7	673.4	736.8	763.5
50°	485.9	549.0	653.2	720.6	748.7
52.5°	445.1	533.1	633.8	704.7	734.5
55°	428.9	501.0	612.4	687.3	717.4
57.5°	384.9	478.4	591.0	668.2	699.2
60°	363.5	447.1	567.2	648.8	681.0
62.5°	330.2	420.5	543.8	627.4	660.7
65°	293.7	391.6	518.0	606.9	641.3
67.5°	259.6	362.6	493.4	585.5	621.9
70°	226.3	332.5	467.7	564.1	600.5
72.5°	187.5	302.4	442.8	543.8	580.3
75°	154.5	273.5	419.3	522.4	558.8
77.5°	122.1	245.7	396.8	503.0	539.5
80°	92.3	218.8	374.2	482.7	520.1
82.5°	64.2	196.2	353.9	463.3	499.8
85°	39.6	176.0	334.6	442.8	480.4
87.5°	18.2	157.7	315.2	423.7	462.2
90°	2.0	143.8	299.2	407.5	445.1
92.5°	1.2	139.5	292.9	400.0	436.4
95°	0.0	135.2	289.7	395.6	432.1
97.5°	0.0	130.8	282.2	389.2	426.9
100°	0.0	128.8	276.7	379.7	416.2
102.5°	0.0	125.6	270.3	371.0	407.5
105°	0.0	124.4	263.9	363.5	399.1
107.5°	0.0	122.1	257.3	353.9	389.2
110°	0.0	120.1	252.1	345.3	379.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	118.1	246.6	336.9	369.9
115°	0.0	115.8	240.2	327.0	359.2
117.5°	0.0	112.6	233.8	317.5	349.6
120°	0.0	108.2	227.5	308.8	338.9
122.5°	0.0	103.9	220.8	298.1	327.0
125°	0.0	99.8	213.3	288.5	316.3
127.5°	0.0	93.2	204.9	277.8	303.6
130°	0.0	86.8	194.2	267.1	291.7
132.5°	1.2	80.5	183.5	255.3	279.9
135°	0.0	74.1	171.6	243.4	266.0
137.5°	0.0	68.6	158.6	230.7	252.1
140°	0.0	62.2	145.9	215.6	238.2
142.5°	0.0	54.7	133.1	199.4	223.1
145°	0.0	48.3	120.1	182.3	208.1
147.5°	1.2	42.8	108.2	164.1	191.9
150°	1.2	38.5	96.7	145.9	173.6
152.5°	1.2	34.4	84.8	128.8	155.4
155°	1.2	30.1	74.1	111.4	138.3
157.5°	1.2	25.8	62.2	94.3	120.1
160°	1.2	22.6	51.5	79.3	103.0
162.5°	1.2	19.4	42.0	62.2	84.8
165°	1.2	16.2	33.3	46.0	65.4
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)