

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: P567400

Luminaire Tested: **8SNX-148HL-FDL-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-148HL-FDL-UNV-L940-CD
Description: 8FT 14800 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

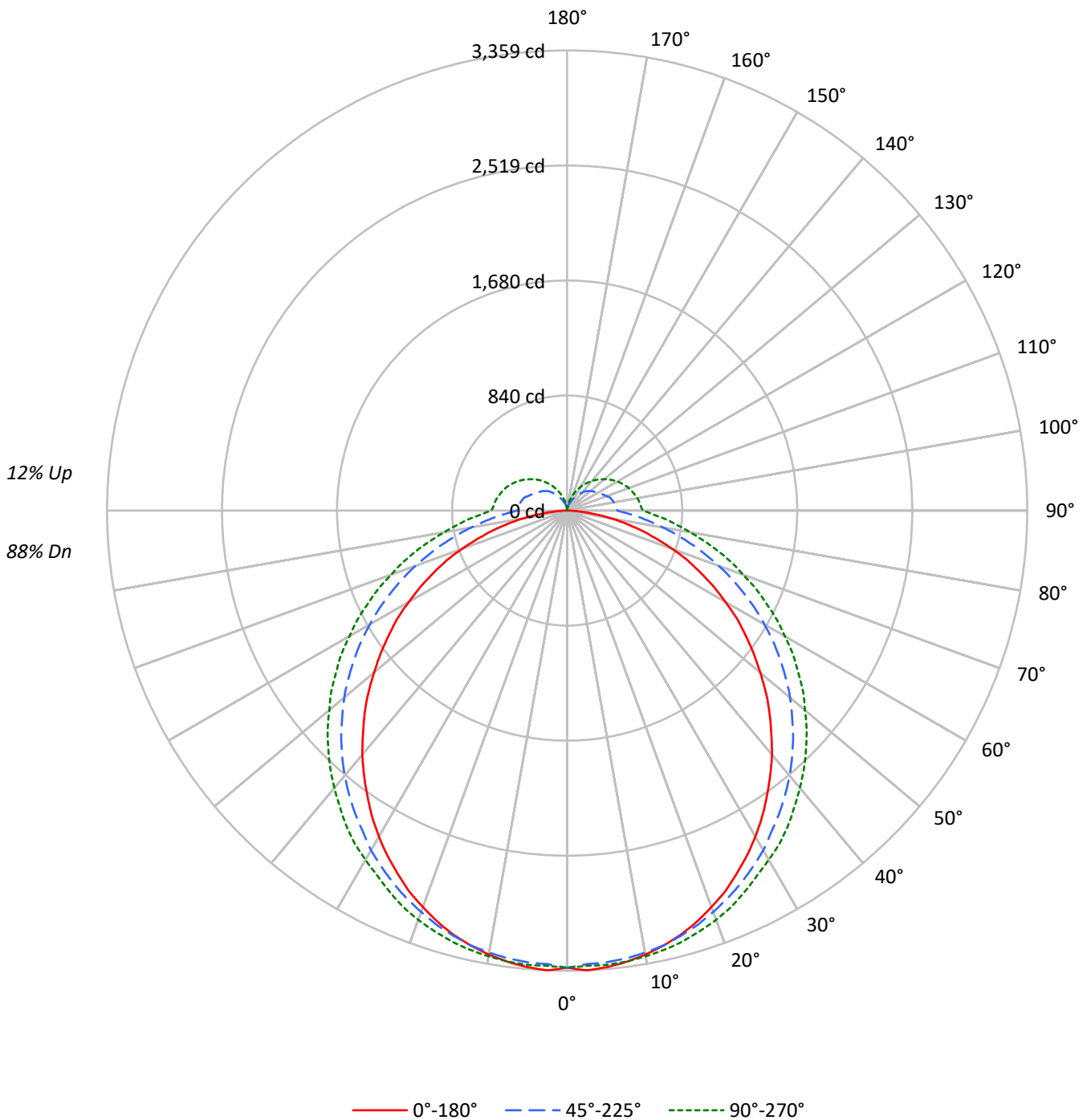
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12012.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 103.6
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	50	30	10	0	
RCR																						
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88				
1	105	99	95	90	101	96	92	88	89	86	83	84	81	78	78	76	74	71				
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58				
3	86	75	66	60	82	72	65	58	68	61	56	63	58	53	59	55	51	48				
4	78	66	57	50	75	64	56	49	60	53	47	56	50	45	53	48	43	41				
5	72	59	50	43	69	57	48	42	54	46	41	50	44	39	47	42	38	35				
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	43	37	33	31				
7	61	48	39	33	59	46	38	32	44	36	31	41	35	30	39	33	29	27				
8	57	43	35	29	55	42	34	29	40	33	28	38	31	27	36	30	26	24				
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	27	23	21				
10	50	37	29	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17957	17957	17957
5°	18062	17693	17722
10°	17970	17532	17539
15°	17832	17338	17367
20°	17603	17104	17172
25°	17328	16866	16911
30°	17028	16628	16687
35°	16644	16341	16532
40°	16274	16104	16292
45°	15824	15830	16091
50°	15303	15541	15834
55°	14810	15180	15606
60°	14241	14797	15326
65°	13549	14359	15053
70°	12669	13880	14743
75°	11413	13360	14635
80°	9660	13058	14520
85°	7192	13399	15305



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.7	2.6
10°-20°	911.1	7.6
20°-30°	1386.1	11.5
30°-40°	1685.4	14.0
40°-50°	1783.1	14.8
50°-60°	1671.4	13.9
60°-70°	1375.0	11.4
70°-80°	951.4	7.9
80°-90°	529.0	4.4
90°-100°	348.5	2.9
100°-110°	312.5	2.6
110°-120°	258.7	2.2
120°-130°	200.0	1.7
130°-140°	141.6	1.2
140°-150°	85.4	0.7
150°-160°	41.0	0.3
160°-170°	13.4	0.1
170°-180°	1.6	0.0
0°-30°	2614.0	21.8
0°-40°	4299.4	35.8
0°-60°	7753.8	64.6
0°-90°	10609.2	88.3
90°-120°	919.7	7.7
90°-150°	1346.7	11.2
90°-180°	1403.0	11.7
0°-180°	12012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3336	3336	3336	3336	3336	
5°	3345	3338	3310	3336	3328	317
15°	3205	3215	3213	3256	3256	903
25°	2925	2966	3001	3067	3069	1348
35°	2542	2610	2699	2785	2810	1591
45°	2090	2199	2333	2438	2466	1611
55°	1590	1732	1899	2018	2059	1423
65°	1076	1230	1421	1561	1604	1067
75°	560	722	934	1082	1142	594
85°	123	306	518	662	720	142
90°	2	173	366	504	553	8
95°	2	165	356	488	535	2
105°	2	142	333	459	500	2
115°	4	123	282	407	452	3
125°	4	105	241	348	391	4
135°	4	82	202	286	321	3
145°	4	60	140	216	243	3
155°	6	41	86	138	160	3
165°	6	27	47	64	82	2
175°	6	10	14	14	8	1
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3336.5	3336.5	3336.5	3336.5	3336.5
2.5°	3359.1	3348.8	3313.8	3336.5	3326.2
5°	3344.7	3338.5	3309.7	3336.5	3328.2
7.5°	3322.1	3320.0	3297.4	3328.2	3320.0
10°	3291.2	3295.3	3276.8	3309.7	3303.6
12.5°	3252.1	3258.3	3250.1	3287.1	3283.0
15°	3204.8	3215.1	3213.0	3256.2	3256.2
17.5°	3147.2	3161.6	3169.9	3219.2	3219.2
20°	3079.3	3102.0	3118.4	3171.9	3180.1
22.5°	3011.5	3038.2	3062.9	3118.4	3130.8
25°	2925.1	2966.2	3001.2	3067.0	3069.1
27.5°	2840.7	2886.0	2933.3	2997.1	3003.2
30°	2748.2	2805.8	2863.4	2925.1	2943.6
32.5°	2649.4	2713.2	2777.0	2859.2	2883.9
35°	2542.5	2610.3	2698.8	2785.2	2809.9
37.5°	2435.5	2511.6	2614.5	2702.9	2725.5
40°	2326.5	2410.8	2526.0	2616.5	2643.3
42.5°	2205.1	2308.0	2431.4	2528.1	2558.9
45°	2089.9	2198.9	2332.6	2437.6	2466.4
47.5°	1968.6	2083.8	2227.7	2338.8	2371.7
50°	1839.0	1970.6	2124.9	2236.0	2266.8
52.5°	1717.6	1851.3	2013.8	2129.0	2172.2
55°	1590.1	1732.0	1898.6	2017.9	2059.1
57.5°	1470.8	1606.5	1785.5	1904.8	1956.2
60°	1335.0	1485.2	1664.1	1793.7	1834.9
62.5°	1207.5	1359.7	1544.8	1678.5	1725.8
65°	1075.8	1230.1	1421.4	1561.3	1604.5
67.5°	952.4	1104.6	1300.0	1437.8	1493.4
70°	816.6	977.1	1176.6	1318.5	1365.9
72.5°	682.9	849.5	1053.2	1205.4	1258.9
75°	559.5	722.0	933.9	1082.0	1141.6
77.5°	440.2	604.8	818.7	970.9	1022.3
80°	320.9	493.7	711.7	861.9	911.3
82.5°	211.9	392.9	608.9	759.0	812.5
85°	123.4	306.5	518.4	662.4	720.0
87.5°	53.5	232.4	434.0	576.0	623.3
90°	2.1	172.8	366.1	504.0	553.3
92.5°	2.1	168.7	357.9	493.7	541.0
95°	2.1	164.6	355.9	487.5	534.8
97.5°	2.1	162.5	351.7	483.4	528.7
100°	2.1	156.3	345.6	475.2	520.4
102.5°	2.1	148.1	339.4	466.9	510.1
105°	2.1	141.9	333.2	458.7	499.9
107.5°	2.1	135.8	323.0	448.4	489.6
110°	2.1	129.6	306.5	438.1	479.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.1	127.5	294.2	423.7	466.9
115°	4.1	123.4	281.8	407.3	452.5
117.5°	4.1	121.4	271.5	390.8	438.1
120°	4.1	115.2	261.2	376.4	421.7
122.5°	4.1	109.0	251.0	362.0	407.3
125°	4.1	104.9	240.7	347.6	390.8
127.5°	4.1	98.7	232.4	333.2	372.3
130°	4.1	94.6	222.2	316.8	355.9
132.5°	4.1	88.5	211.9	300.3	337.3
135°	4.1	82.3	201.6	285.9	320.9
137.5°	4.1	74.1	189.2	269.5	302.4
140°	4.1	67.9	172.8	253.0	283.9
142.5°	4.1	63.8	156.3	234.5	263.3
145°	4.1	59.7	139.9	216.0	242.7
147.5°	4.1	55.5	125.5	197.5	222.2
150°	4.1	49.4	111.1	181.0	201.6
152.5°	6.2	45.3	98.7	160.4	181.0
155°	6.2	41.1	86.4	137.8	160.4
157.5°	6.2	37.0	74.1	115.2	139.9
160°	6.2	32.9	63.8	94.6	119.3
162.5°	6.2	30.9	55.5	78.2	100.8
165°	6.2	26.7	47.3	63.8	82.3
167.5°	6.2	20.6	39.1	49.4	67.9
170°	6.2	16.5	30.9	35.0	51.4
172.5°	6.2	12.3	22.6	24.7	26.7
175°	6.2	10.3	14.4	14.4	8.2
177.5°	6.2	8.2	8.2	8.2	4.1
180°	4.1	4.1	4.1	4.1	4.1

(END OF REPORT)