

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: P567472

Luminaire Tested: **8SNX-162HL-LW-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567472
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-162HL-LW-UNV-L940-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

Summary

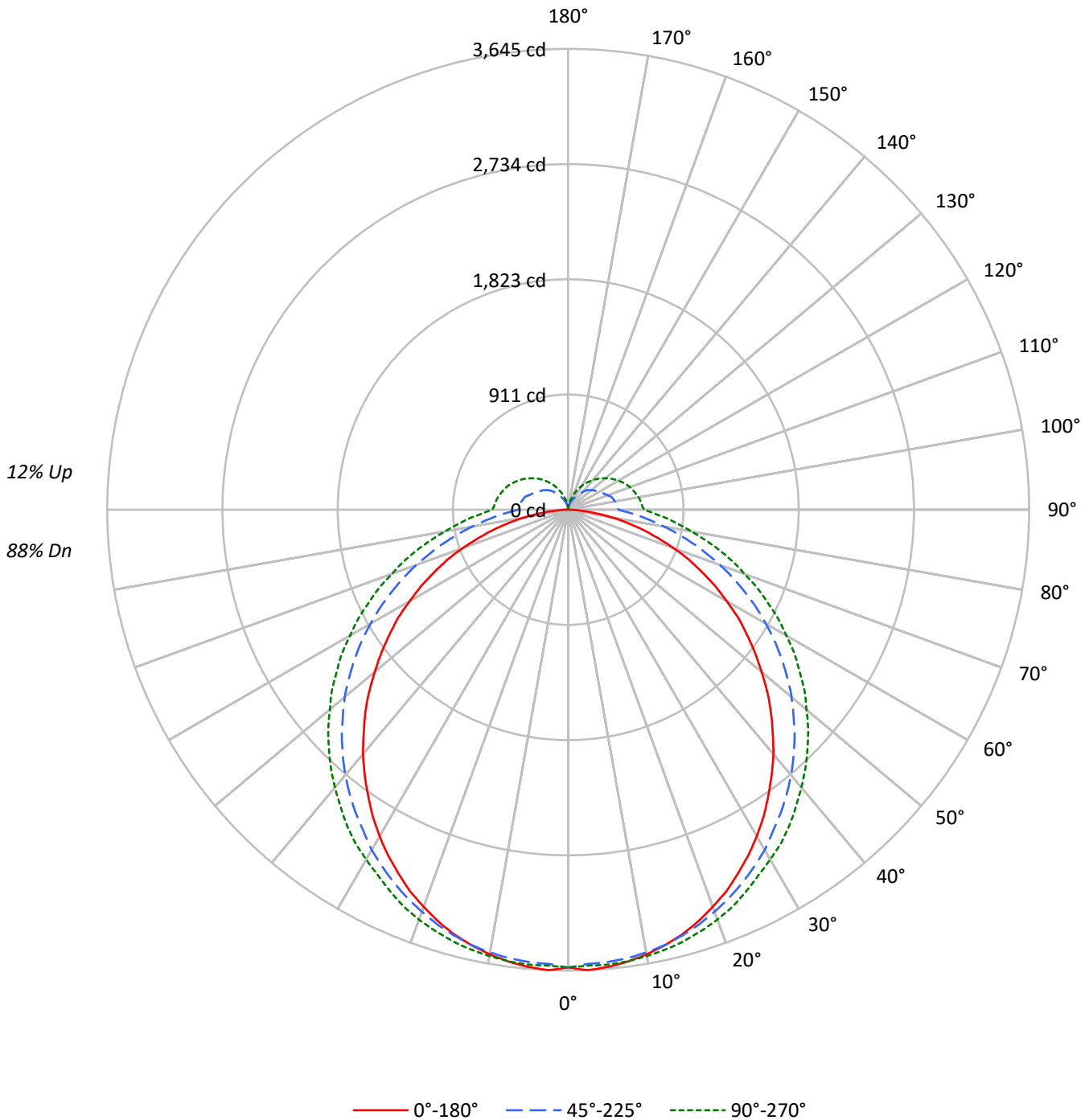
Lumens per Lamp: N/A
Luminaire Lumens: 13035.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 110.2
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	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°	19486	19486	19486
5°	19573	18612	18437
10°	19447	17899	17531
15°	19270	17188	16705
20°	18995	16468	15906
25°	18668	15766	15087
30°	18313	15078	14334
35°	17866	14355	13658
40°	17432	13678	12923
45°	16909	12964	12222
50°	16304	12224	11477
55°	15723	11410	10740
60°	15051	10552	9947
65°	14231	9617	9126
70°	13190	8602	8237
75°	11715	7488	7386
80°	9652	6371	6411
85°	6678	5298	5597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.7	2.6
10°-20°	988.7	7.6
20°-30°	1504.1	11.5
30°-40°	1828.9	14.0
40°-50°	1934.9	14.8
50°-60°	1813.7	13.9
60°-70°	1492.1	11.4
70°-80°	1032.4	7.9
80°-90°	574.1	4.4
90°-100°	378.2	2.9
100°-110°	339.1	2.6
110°-120°	280.7	2.2
120°-130°	217.0	1.7
130°-140°	153.6	1.2
140°-150°	92.7	0.7
150°-160°	44.5	0.3
160°-170°	14.6	0.1
170°-180°	1.8	0.0
0°-30°	2836.6	21.8
0°-40°	4665.5	35.8
0°-60°	8414.2	64.6
0°-90°	11512.8	88.3
90°-120°	998.0	7.7
90°-150°	1461.4	11.2
90°-180°	1522.0	11.7
0°-180°	13035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3621	3621	3621	3621	3621	
5°	3630	3623	3592	3621	3612	345
15°	3478	3489	3487	3534	3534	980
25°	3174	3219	3257	3328	3330	1463
35°	2759	2833	2929	3022	3049	1727
45°	2268	2386	2531	2645	2676	1748
55°	1726	1880	2060	2190	2234	1545
65°	1167	1335	1542	1694	1741	1157
75°	607	784	1013	1174	1239	644
85°	134	333	562	719	781	154
90°	2	188	397	547	600	9
95°	2	179	386	529	580	2
105°	2	154	362	498	542	2
115°	4	134	306	442	491	4
125°	4	114	261	377	424	4
135°	4	89	219	310	348	3
145°	4	65	152	234	263	3
155°	7	45	94	150	174	3
165°	7	29	51	69	89	2
175°	7	11	16	16	9	1
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3620.6	3620.6	3620.6	3620.6	3620.6
2.5°	3645.2	3634.0	3596.1	3620.6	3609.5
5°	3629.5	3622.9	3591.6	3620.6	3611.7
7.5°	3605.0	3602.8	3578.2	3611.7	3602.8
10°	3571.5	3576.0	3555.9	3591.6	3584.9
12.5°	3529.1	3535.8	3526.9	3567.0	3562.6
15°	3477.8	3488.9	3486.7	3533.6	3533.6
17.5°	3415.3	3430.9	3439.8	3493.4	3493.4
20°	3341.6	3366.1	3384.0	3442.0	3451.0
22.5°	3267.9	3297.0	3323.7	3384.0	3397.4
25°	3174.2	3218.8	3256.8	3328.2	3330.4
27.5°	3082.7	3131.8	3183.1	3252.3	3259.0
30°	2982.2	3044.7	3107.2	3174.2	3194.3
32.5°	2875.1	2944.3	3013.5	3102.7	3129.5
35°	2759.0	2832.7	2928.6	3022.4	3049.2
37.5°	2642.9	2725.5	2837.1	2933.1	2957.7
40°	2524.6	2616.1	2741.1	2839.4	2868.4
42.5°	2392.9	2504.5	2638.5	2743.4	2776.8
45°	2267.9	2386.2	2531.3	2645.2	2676.4
47.5°	2136.2	2261.2	2417.5	2538.0	2573.7
50°	1995.6	2138.4	2305.9	2426.4	2459.9
52.5°	1863.9	2009.0	2185.3	2310.3	2357.2
55°	1725.5	1879.5	2060.3	2189.8	2234.4
57.5°	1596.0	1743.3	1937.5	2067.0	2122.8
60°	1448.7	1611.6	1805.8	1946.5	1991.1
62.5°	1310.3	1475.5	1676.4	1821.5	1872.8
65°	1167.4	1334.9	1542.4	1694.2	1741.1
67.5°	1033.5	1198.7	1410.7	1560.3	1620.6
70°	886.2	1060.3	1276.8	1430.8	1482.2
72.5°	741.1	921.9	1142.9	1308.1	1366.1
75°	607.2	783.5	1013.4	1174.1	1238.9
77.5°	477.7	656.3	888.4	1053.6	1109.4
80°	348.2	535.7	772.3	935.3	988.9
82.5°	229.9	426.3	660.7	823.7	881.7
85°	133.9	332.6	562.5	718.8	781.3
87.5°	58.0	252.2	471.0	625.0	676.4
90°	2.2	187.5	397.3	546.9	600.5
92.5°	2.2	183.0	388.4	535.7	587.1
95°	2.2	178.6	386.2	529.0	580.4
97.5°	2.2	176.3	381.7	524.6	573.7
100°	2.2	169.6	375.0	515.6	564.7
102.5°	2.2	160.7	368.3	506.7	553.6
105°	2.2	154.0	361.6	497.8	542.4
107.5°	2.2	147.3	350.5	486.6	531.3
110°	2.2	140.6	332.6	475.5	520.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	138.4	319.2	459.8	506.7
115°	4.5	133.9	305.8	442.0	491.1
117.5°	4.5	131.7	294.6	424.1	475.5
120°	4.5	125.0	283.5	408.5	457.6
122.5°	4.5	118.3	272.3	392.9	442.0
125°	4.5	113.8	261.2	377.2	424.1
127.5°	4.5	107.1	252.2	361.6	404.0
130°	4.5	102.7	241.1	343.8	386.2
132.5°	4.5	96.0	229.9	325.9	366.1
135°	4.5	89.3	218.8	310.3	348.2
137.5°	4.5	80.4	205.4	292.4	328.1
140°	4.5	73.7	187.5	274.6	308.0
142.5°	4.5	69.2	169.6	254.5	285.7
145°	4.5	64.7	151.8	234.4	263.4
147.5°	4.5	60.3	136.2	214.3	241.1
150°	4.5	53.6	120.5	196.4	218.8
152.5°	6.7	49.1	107.1	174.1	196.4
155°	6.7	44.6	93.8	149.6	174.1
157.5°	6.7	40.2	80.4	125.0	151.8
160°	6.7	35.7	69.2	102.7	129.5
162.5°	6.7	33.5	60.3	84.8	109.4
165°	6.7	29.0	51.3	69.2	89.3
167.5°	6.7	22.3	42.4	53.6	73.7
170°	6.7	17.9	33.5	37.9	55.8
172.5°	6.7	13.4	24.6	26.8	29.0
175°	6.7	11.2	15.6	15.6	8.9
177.5°	6.7	8.9	8.9	8.9	4.5
180°	4.5	4.5	4.5	4.5	4.5

(END OF REPORT)