

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: P567449

Luminaire Tested: **8SNX-162HL-FDL-UNV-L950-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567449
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-FDL-UNV-L950-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 5000K, 90CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

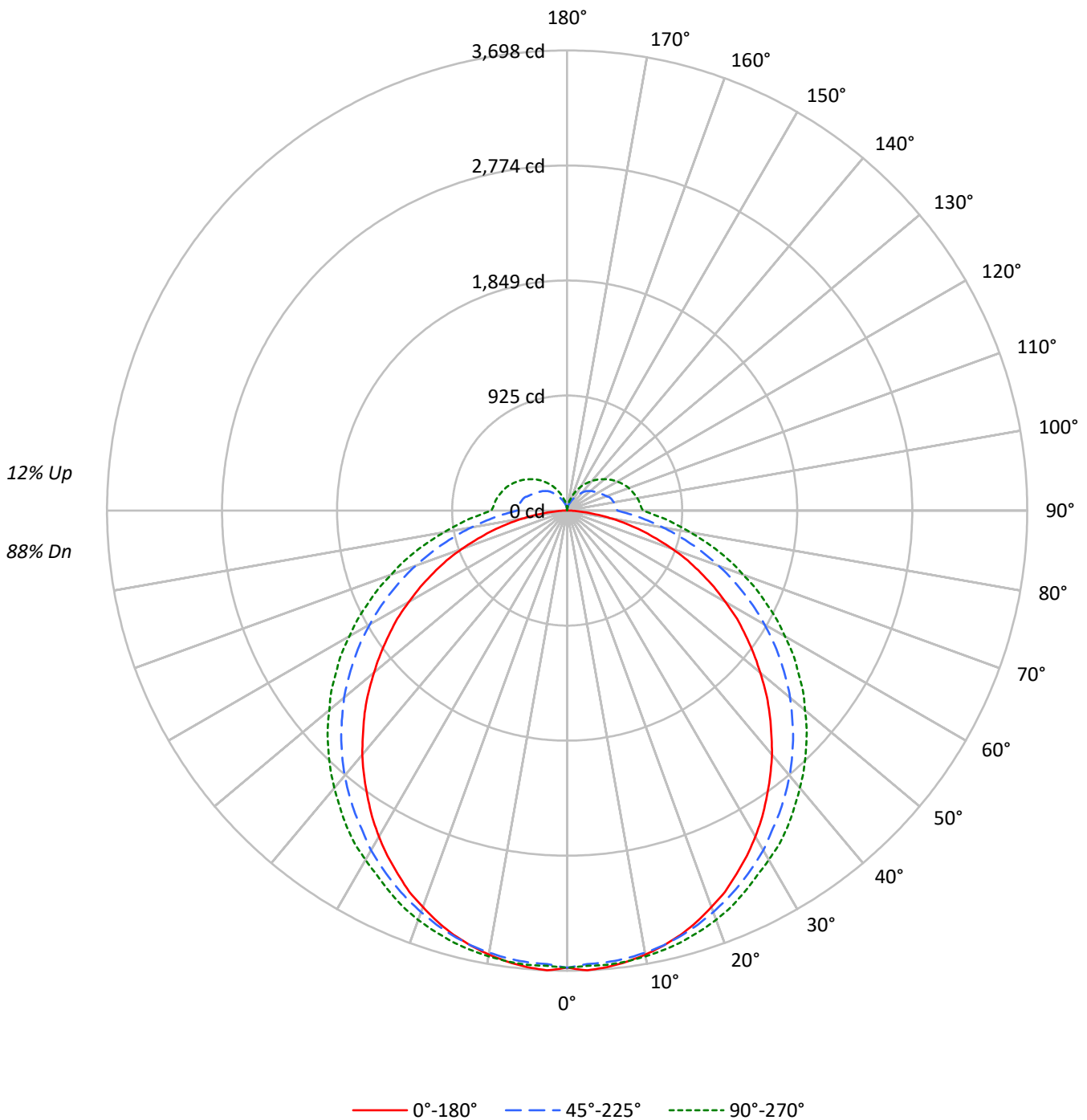
Lumens per Lamp: N/A
Luminaire Lumens: 13225.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 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°	19770	19770	19770
5°	19886	19480	19512
10°	19785	19302	19310
15°	19633	19089	19122
20°	19381	18831	18906
25°	19077	18569	18619
30°	18747	18307	18372
35°	18324	17991	18201
40°	17917	17731	17937
45°	17423	17429	17715
50°	16848	17110	17433
55°	16305	16713	17182
60°	15679	16292	16873
65°	14918	15808	16573
70°	13948	15281	16231
75°	12565	14709	16114
80°	10636	14377	15986
85°	7920	14751	16850



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.7	2.6
10°-20°	1003.2	7.6
20°-30°	1526.1	11.5
30°-40°	1855.6	14.0
40°-50°	1963.1	14.8
50°-60°	1840.2	13.9
60°-70°	1513.8	11.4
70°-80°	1047.4	7.9
80°-90°	582.5	4.4
90°-100°	383.7	2.9
100°-110°	344.1	2.6
110°-120°	284.8	2.2
120°-130°	220.2	1.7
130°-140°	155.9	1.2
140°-150°	94.0	0.7
150°-160°	45.2	0.3
160°-170°	14.8	0.1
170°-180°	1.8	0.0
0°-30°	2878.0	21.8
0°-40°	4733.5	35.8
0°-60°	8536.8	64.6
0°-90°	11680.6	88.3
90°-120°	1012.6	7.7
90°-150°	1482.7	11.2
90°-180°	1544.0	11.7
0°-180°	13225.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3673	3673	3673	3673	3673	
5°	3682	3676	3644	3673	3664	350
15°	3528	3540	3538	3585	3585	995
25°	3220	3266	3304	3377	3379	1484
35°	2799	2874	2971	3066	3094	1752
45°	2301	2421	2568	2684	2715	1774
55°	1751	1907	2090	2222	2267	1567
65°	1184	1354	1565	1719	1766	1174
75°	616	795	1028	1191	1257	653
85°	136	337	571	729	793	156
90°	2	190	403	555	609	9
95°	2	181	392	537	589	2
105°	2	156	367	505	550	2
115°	4	136	310	448	498	4
125°	4	116	265	383	430	4
135°	4	91	222	315	353	3
145°	4	66	154	238	267	3
155°	7	45	95	152	177	3
165°	7	29	52	70	91	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°	3673.4	3673.4	3673.4	3673.4	3673.4
2.5°	3698.3	3687.0	3648.5	3673.4	3662.1
5°	3682.5	3675.7	3644.0	3673.4	3664.3
7.5°	3657.5	3655.3	3630.4	3664.3	3655.3
10°	3623.6	3628.1	3607.7	3644.0	3637.2
12.5°	3580.5	3587.3	3578.3	3619.0	3614.5
15°	3528.5	3539.8	3537.5	3585.1	3585.1
17.5°	3465.0	3480.9	3490.0	3544.3	3544.3
20°	3390.3	3415.2	3433.3	3492.2	3501.3
22.5°	3315.6	3345.0	3372.2	3433.3	3446.9
25°	3220.4	3265.7	3304.2	3376.7	3379.0
27.5°	3127.6	3177.4	3229.5	3299.7	3306.5
30°	3025.7	3089.1	3152.5	3220.4	3240.8
32.5°	2917.0	2987.2	3057.4	3148.0	3175.2
35°	2799.2	2873.9	2971.3	3066.4	3093.6
37.5°	2681.4	2765.2	2878.5	2975.9	3000.8
40°	2561.4	2654.3	2781.1	2880.7	2910.2
42.5°	2427.8	2541.0	2676.9	2783.4	2817.3
45°	2301.0	2421.0	2568.2	2683.7	2715.4
47.5°	2167.3	2294.2	2452.7	2575.0	2611.2
50°	2024.7	2169.6	2339.5	2461.8	2495.7
52.5°	1891.1	2038.3	2217.2	2344.0	2391.6
55°	1750.6	1906.9	2090.3	2221.7	2267.0
57.5°	1619.3	1768.8	1965.8	2097.1	2153.8
60°	1469.8	1635.1	1832.2	1974.8	2020.1
62.5°	1329.4	1497.0	1700.8	1848.0	1900.1
65°	1184.5	1354.3	1564.9	1718.9	1766.5
67.5°	1048.6	1216.2	1431.3	1583.0	1644.2
70°	899.1	1075.7	1295.4	1451.7	1503.8
72.5°	751.9	935.3	1159.5	1327.1	1386.0
75°	616.0	794.9	1028.2	1191.2	1256.9
77.5°	484.7	665.8	901.4	1069.0	1125.6
80°	353.3	543.5	783.6	948.9	1003.3
82.5°	233.3	432.6	670.4	835.7	894.6
85°	135.9	337.4	570.7	729.2	792.7
87.5°	58.9	255.9	477.9	634.1	686.2
90°	2.3	190.2	403.1	554.9	609.2
92.5°	2.3	185.7	394.1	543.5	595.6
95°	2.3	181.2	391.8	536.7	588.8
97.5°	2.3	178.9	387.3	532.2	582.0
100°	2.3	172.1	380.5	523.2	573.0
102.5°	2.3	163.1	373.7	514.1	561.7
105°	2.3	156.3	366.9	505.0	550.3
107.5°	2.3	149.5	355.6	493.7	539.0
110°	2.3	142.7	337.4	482.4	527.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	140.4	323.9	466.5	514.1
115°	4.5	135.9	310.3	448.4	498.2
117.5°	4.5	133.6	298.9	430.3	482.4
120°	4.5	126.8	287.6	414.4	464.3
122.5°	4.5	120.0	276.3	398.6	448.4
125°	4.5	115.5	265.0	382.7	430.3
127.5°	4.5	108.7	255.9	366.9	409.9
130°	4.5	104.2	244.6	348.8	391.8
132.5°	4.5	97.4	233.3	330.7	371.4
135°	4.5	90.6	221.9	314.8	353.3
137.5°	4.5	81.5	208.4	296.7	332.9
140°	4.5	74.7	190.2	278.6	312.5
142.5°	4.5	70.2	172.1	258.2	289.9
145°	4.5	65.7	154.0	237.8	267.2
147.5°	4.5	61.1	138.1	217.4	244.6
150°	4.5	54.4	122.3	199.3	221.9
152.5°	6.8	49.8	108.7	176.6	199.3
155°	6.8	45.3	95.1	151.7	176.6
157.5°	6.8	40.8	81.5	126.8	154.0
160°	6.8	36.2	70.2	104.2	131.4
162.5°	6.8	34.0	61.1	86.1	111.0
165°	6.8	29.4	52.1	70.2	90.6
167.5°	6.8	22.6	43.0	54.4	74.7
170°	6.8	18.1	34.0	38.5	56.6
172.5°	6.8	13.6	24.9	27.2	29.4
175°	6.8	11.3	15.9	15.9	9.1
177.5°	6.8	9.1	9.1	9.1	4.5
180°	4.5	4.5	4.5	4.5	4.5

(END OF REPORT)