

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: P567444

Luminaire Tested: **8SNX-162HL-FDL-UNV-L840-CD**

Issue Date: 9/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P567444  
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-L840-CD  
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND FDL LENS  
Light Source: -  
Ballast/Driver: -

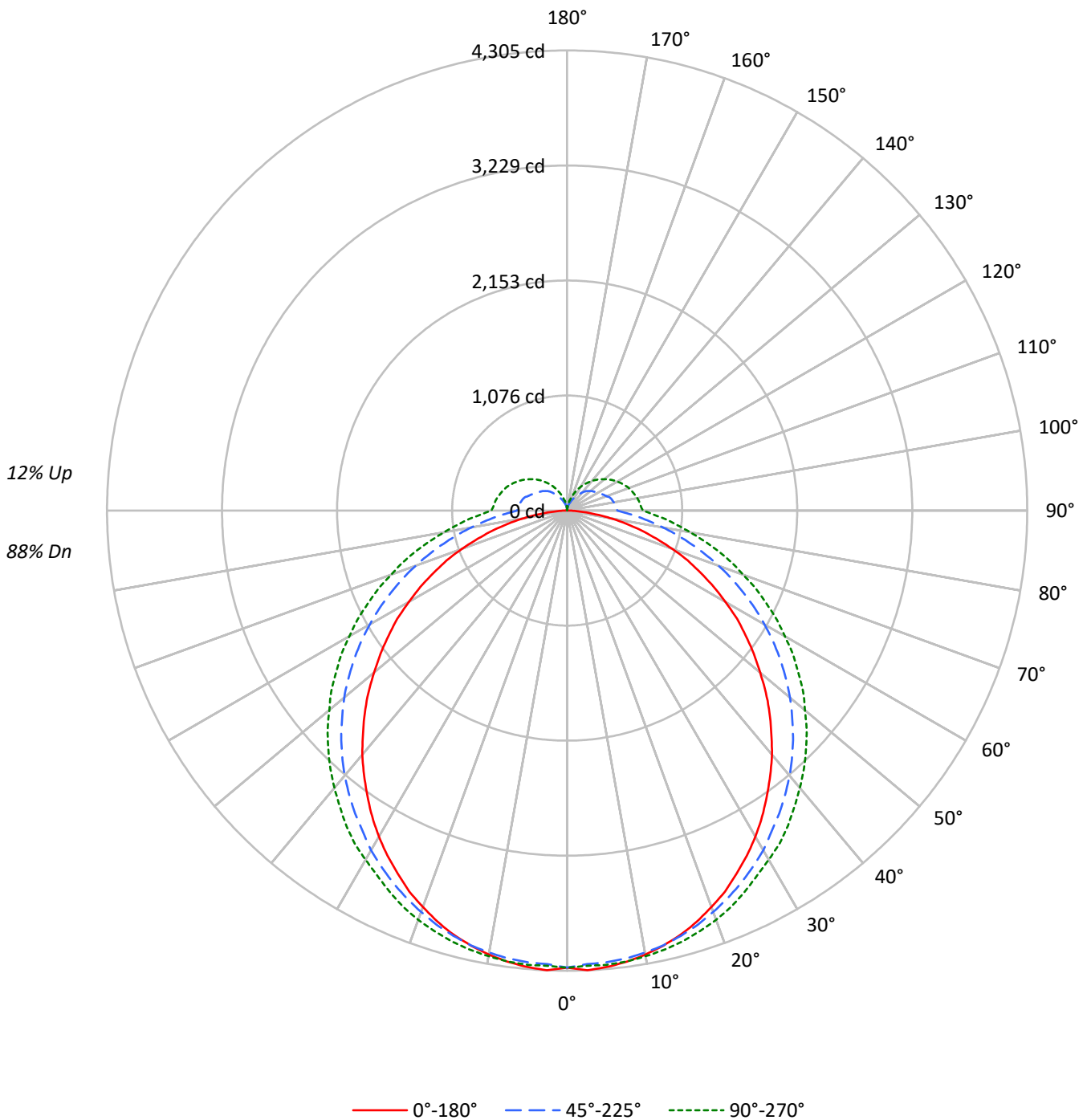
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15393.0 lumens  
Efficiency: N/A  
Efficacy: 139.7 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°	23011	23011	23011
5°	23145	22673	22711
10°	23028	22467	22475
15°	22851	22218	22256
20°	22558	21918	22005
25°	22205	21613	21671
30°	21820	21308	21384
35°	21328	20940	21185
40°	20854	20637	20878
45°	20279	20286	20619
50°	19610	19915	20292
55°	18978	19453	19998
60°	18250	18962	19640
65°	17362	18401	19290
70°	16235	17787	18892
75°	14625	17120	18756
80°	12379	16735	18605
85°	9220	17170	19611



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	405.9	2.6
10°-20°	1167.6	7.6
20°-30°	1776.2	11.5
30°-40°	2159.7	14.0
40°-50°	2285.0	14.8
50°-60°	2141.8	13.9
60°-70°	1762.0	11.4
70°-80°	1219.2	7.9
80°-90°	678.0	4.4
90°-100°	446.6	2.9
100°-110°	400.5	2.6
110°-120°	331.5	2.2
120°-130°	256.3	1.7
130°-140°	181.4	1.2
140°-150°	109.4	0.7
150°-160°	52.6	0.3
160°-170°	17.2	0.1
170°-180°	2.1	0.0
0°-30°	3349.8	21.8
0°-40°	5509.5	35.8
0°-60°	9936.3	64.6
0°-90°	13595.4	88.3
90°-120°	1178.6	7.7
90°-150°	1725.7	11.2
90°-180°	1798.0	11.7
0°-180°	15393.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4276	4276	4276	4276	4276	
5°	4286	4278	4241	4276	4265	407
15°	4107	4120	4117	4173	4173	1158
25°	3748	3801	3846	3930	3933	1728
35°	3258	3345	3458	3569	3601	2039
45°	2678	2818	2989	3124	3161	2064
55°	2038	2220	2433	2586	2639	1824
65°	1379	1576	1822	2001	2056	1367
75°	717	925	1197	1386	1463	761
85°	158	393	664	849	923	182
90°	3	221	469	646	709	10
95°	3	211	456	625	685	2
105°	3	182	427	588	640	3
115°	5	158	361	522	580	4
125°	5	134	308	446	501	5
135°	5	105	258	366	411	4
145°	5	76	179	277	311	3
155°	8	53	111	177	206	3
165°	8	34	61	82	105	2
175°	8	13	18	18	10	1
180°	5	5	5	5	5	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4275.6	4275.6	4275.6	4275.6	4275.6
2.5°	4304.6	4291.4	4246.6	4275.6	4262.4
5°	4286.1	4278.2	4241.3	4275.6	4265.0
7.5°	4257.1	4254.5	4225.5	4265.0	4254.5
10°	4217.6	4222.9	4199.1	4241.3	4233.4
12.5°	4167.5	4175.4	4164.9	4212.3	4207.0
15°	4106.9	4120.1	4117.4	4172.8	4172.8
17.5°	4033.1	4051.5	4062.1	4125.3	4125.3
20°	3946.1	3975.1	3996.2	4064.7	4075.2
22.5°	3859.1	3893.4	3925.0	3996.2	4012.0
25°	3748.4	3801.1	3845.9	3930.3	3932.9
27.5°	3640.3	3698.3	3758.9	3840.6	3848.5
30°	3521.7	3595.5	3669.3	3748.4	3772.1
32.5°	3395.2	3476.9	3558.6	3664.0	3695.7
35°	3258.1	3345.1	3458.4	3569.1	3600.8
37.5°	3121.0	3218.5	3350.3	3463.7	3492.7
40°	2981.3	3089.4	3237.0	3353.0	3387.3
42.5°	2825.8	2957.6	3115.7	3239.6	3279.2
45°	2678.2	2817.9	2989.2	3123.7	3160.6
47.5°	2522.6	2670.3	2854.8	2997.1	3039.3
50°	2356.6	2525.3	2723.0	2865.3	2904.9
52.5°	2201.1	2372.4	2580.6	2728.3	2783.6
55°	2037.6	2219.5	2433.0	2585.9	2638.6
57.5°	1884.7	2058.7	2288.0	2440.9	2506.8
60°	1710.8	1903.2	2132.5	2298.6	2351.3
62.5°	1547.3	1742.4	1979.6	2151.0	2211.6
65°	1378.6	1576.3	1821.5	2000.7	2056.1
67.5°	1220.5	1415.5	1665.9	1842.6	1913.7
70°	1046.5	1252.1	1507.8	1689.7	1750.3
72.5°	875.1	1088.7	1349.6	1544.7	1613.2
75°	717.0	925.2	1196.7	1386.5	1463.0
77.5°	564.1	775.0	1049.1	1244.2	1310.1
80°	411.2	632.6	912.1	1104.5	1167.7
82.5°	271.5	503.5	780.3	972.7	1041.2
85°	158.2	392.8	664.3	848.8	922.6
87.5°	68.5	297.9	556.2	738.1	798.7
90°	2.6	221.4	469.2	645.8	709.1
92.5°	2.6	216.2	458.7	632.6	693.3
95°	2.6	210.9	456.0	624.7	685.4
97.5°	2.6	208.2	450.8	619.5	677.5
100°	2.6	200.3	442.8	608.9	666.9
102.5°	2.6	189.8	434.9	598.4	653.7
105°	2.6	181.9	427.0	587.8	640.5
107.5°	2.6	174.0	413.9	574.6	627.4
110°	2.6	166.1	392.8	561.5	614.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.6	163.4	376.9	543.0	598.4
115°	5.3	158.2	361.1	521.9	579.9
117.5°	5.3	155.5	348.0	500.8	561.5
120°	5.3	147.6	334.8	482.4	540.4
122.5°	5.3	139.7	321.6	463.9	521.9
125°	5.3	134.4	308.4	445.5	500.8
127.5°	5.3	126.5	297.9	427.0	477.1
130°	5.3	121.3	284.7	405.9	456.0
132.5°	5.3	113.3	271.5	384.9	432.3
135°	5.3	105.4	258.3	366.4	411.2
137.5°	5.3	94.9	242.5	345.3	387.5
140°	5.3	87.0	221.4	324.2	363.8
142.5°	5.3	81.7	200.3	300.5	337.4
145°	5.3	76.4	179.2	276.8	311.0
147.5°	5.3	71.2	160.8	253.1	284.7
150°	5.3	63.3	142.3	232.0	258.3
152.5°	7.9	58.0	126.5	205.6	232.0
155°	7.9	52.7	110.7	176.6	205.6
157.5°	7.9	47.4	94.9	147.6	179.2
160°	7.9	42.2	81.7	121.3	152.9
162.5°	7.9	39.5	71.2	100.2	129.2
165°	7.9	34.3	60.6	81.7	105.4
167.5°	7.9	26.4	50.1	63.3	87.0
170°	7.9	21.1	39.5	44.8	65.9
172.5°	7.9	15.8	29.0	31.6	34.3
175°	7.9	13.2	18.5	18.5	10.5
177.5°	7.9	10.5	10.5	10.5	5.3
180°	5.3	5.3	5.3	5.3	5.3

(END OF REPORT)