

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: P567685

Luminaire Tested: **8SNX-200HL-FDL-UNV-L850-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567685
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-200HL-FDL-UNV-L850-CD
Description: 8FT 20000 LUMEN, SNX FIXTURE WITH 5000K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

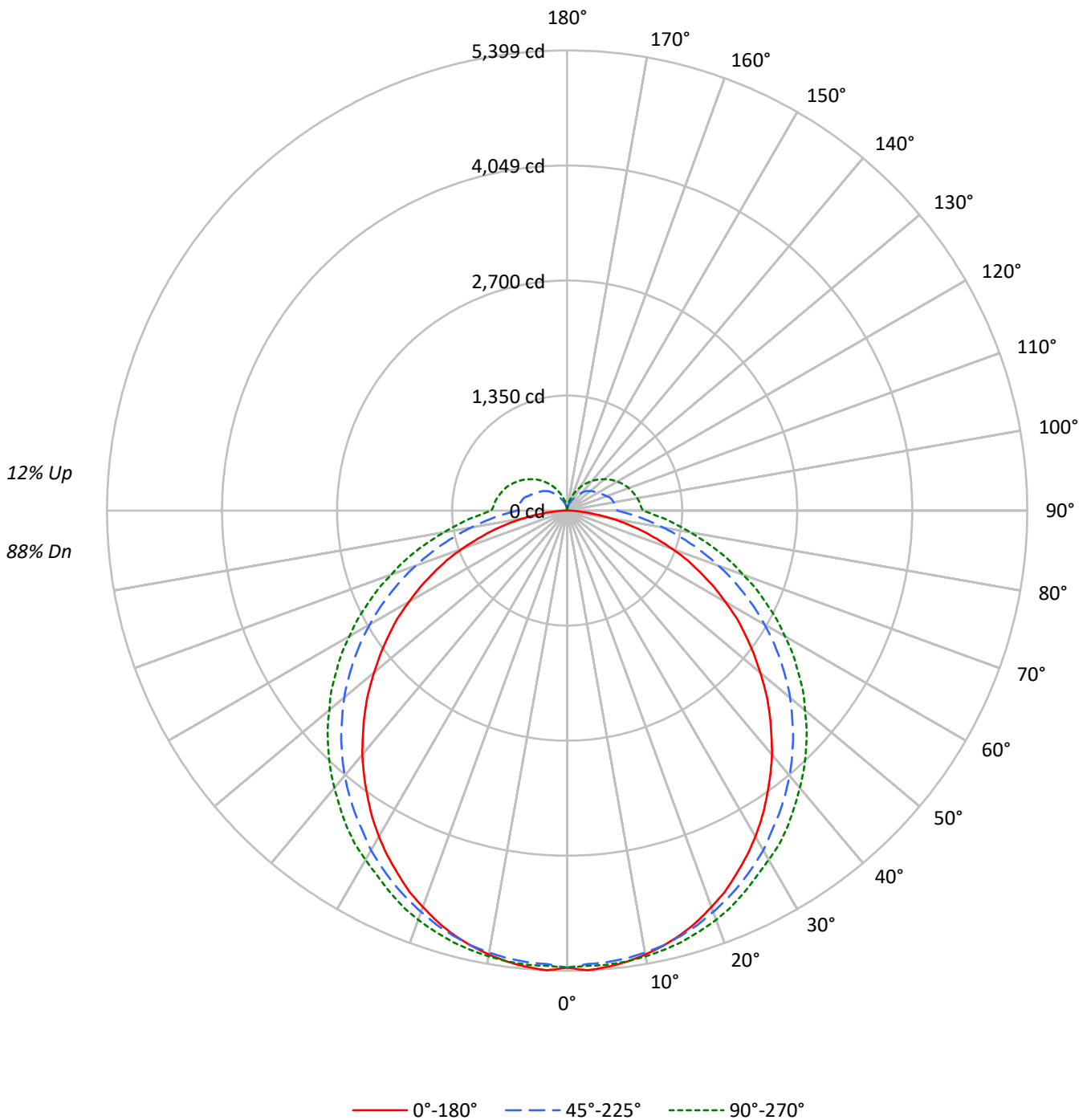
Lumens per Lamp: N/A
Luminaire Lumens: 19306.0 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 145
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°	28861	28861	28861
5°	29029	28436	28484
10°	28882	28178	28188
15°	28660	27866	27914
20°	28292	27490	27599
25°	27850	27108	27180
30°	27367	26725	26820
35°	26750	26264	26571
40°	26156	25884	26185
45°	25434	25443	25861
50°	24594	24977	25450
55°	23803	24398	25082
60°	22889	23783	24632
65°	21777	23078	24192
70°	20362	22309	23694
75°	18344	21473	23524
80°	15525	20988	23336
85°	11563	21533	24596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.1	2.6
10°-20°	1464.4	7.6
20°-30°	2227.8	11.5
30°-40°	2708.8	14.0
40°-50°	2865.8	14.8
50°-60°	2686.3	13.9
60°-70°	2209.9	11.4
70°-80°	1529.1	7.9
80°-90°	850.3	4.4
90°-100°	560.2	2.9
100°-110°	502.3	2.6
110°-120°	415.8	2.2
120°-130°	321.4	1.7
130°-140°	227.5	1.2
140°-150°	137.2	0.7
150°-160°	65.9	0.3
160°-170°	21.6	0.1
170°-180°	2.6	0.0
0°-30°	4201.3	21.8
0°-40°	6910.0	35.8
0°-60°	12462.1	64.6
0°-90°	17051.4	88.3
90°-120°	1478.2	7.7
90°-150°	2164.4	11.2
90°-180°	2255.0	11.7
0°-180°	19306.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5362	5362	5362	5362	5362	
5°	5376	5366	5320	5362	5349	510
15°	5151	5167	5164	5234	5234	1452
25°	4701	4767	4824	4929	4933	2167
35°	4086	4195	4338	4476	4516	2557
45°	3359	3534	3749	3918	3964	2589
55°	2556	2784	3052	3243	3309	2288
65°	1729	1977	2284	2509	2579	1714
75°	899	1160	1501	1739	1835	954
85°	198	493	833	1065	1157	228
90°	3	278	588	810	889	13
95°	3	264	572	784	860	3
105°	3	228	536	737	803	3
115°	7	198	453	655	727	5
125°	7	169	387	559	628	6
135°	7	132	324	460	516	5
145°	7	96	225	347	390	4
155°	10	66	139	222	258	4
165°	10	43	76	102	132	3
175°	10	16	23	23	13	1
180°	7	7	7	7	7	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5362.5	5362.5	5362.5	5362.5	5362.5
2.5°	5398.8	5382.3	5326.1	5362.5	5345.9
5°	5375.7	5365.8	5319.5	5362.5	5349.2
7.5°	5339.3	5336.0	5299.6	5349.2	5336.0
10°	5289.7	5296.3	5266.6	5319.5	5309.6
12.5°	5226.9	5236.8	5223.6	5283.1	5276.5
15°	5150.9	5167.4	5164.1	5233.5	5233.5
17.5°	5058.3	5081.4	5094.7	5174.0	5174.0
20°	4949.2	4985.6	5012.0	5098.0	5111.2
22.5°	4840.1	4883.1	4922.8	5012.0	5031.9
25°	4701.2	4767.4	4823.6	4929.4	4932.7
27.5°	4565.7	4638.4	4714.5	4817.0	4826.9
30°	4416.9	4509.5	4602.1	4701.2	4731.0
32.5°	4258.2	4360.7	4463.2	4595.4	4635.1
35°	4086.3	4195.4	4337.6	4476.4	4516.1
37.5°	3914.4	4036.7	4202.0	4344.2	4380.6
40°	3739.2	3874.7	4059.9	4205.3	4248.3
42.5°	3544.1	3709.4	3907.8	4063.2	4112.8
45°	3359.0	3534.2	3749.1	3917.7	3964.0
47.5°	3163.9	3349.1	3580.5	3759.0	3811.9
50°	2955.6	3167.2	3415.2	3593.7	3643.3
52.5°	2760.6	2975.5	3236.7	3421.8	3491.2
55°	2555.6	2783.7	3051.5	3243.3	3309.4
57.5°	2363.8	2582.0	2869.7	3061.4	3144.1
60°	2145.6	2387.0	2674.6	2882.9	2949.0
62.5°	1940.7	2185.3	2482.9	2697.8	2773.8
65°	1729.1	1977.0	2284.5	2509.3	2578.7
67.5°	1530.7	1775.4	2089.4	2310.9	2400.2
70°	1312.5	1570.4	1891.1	2119.2	2195.2
72.5°	1097.6	1365.4	1692.7	1937.4	2023.3
75°	899.3	1160.4	1501.0	1739.0	1834.9
77.5°	707.5	972.0	1315.8	1560.5	1643.1
80°	515.7	793.5	1143.9	1385.2	1464.6
82.5°	340.5	631.5	978.6	1219.9	1305.9
85°	198.4	492.6	833.1	1064.6	1157.1
87.5°	86.0	373.6	697.6	925.7	1001.7
90°	3.3	277.7	588.5	810.0	889.3
92.5°	3.3	271.1	575.3	793.5	869.5
95°	3.3	264.5	572.0	783.5	859.6
97.5°	3.3	261.2	565.3	776.9	849.7
100°	3.3	251.3	555.4	763.7	836.4
102.5°	3.3	238.0	545.5	750.5	819.9
105°	3.3	228.1	535.6	737.3	803.4
107.5°	3.3	218.2	519.1	720.7	786.8
110°	3.3	208.3	492.6	704.2	770.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.3	205.0	472.8	681.1	750.5
115°	6.6	198.4	452.9	654.6	727.3
117.5°	6.6	195.1	436.4	628.2	704.2
120°	6.6	185.1	419.9	605.0	677.7
122.5°	6.6	175.2	403.3	581.9	654.6
125°	6.6	168.6	386.8	558.7	628.2
127.5°	6.6	158.7	373.6	535.6	598.4
130°	6.6	152.1	357.1	509.1	572.0
132.5°	6.6	142.2	340.5	482.7	542.2
135°	6.6	132.2	324.0	459.5	515.7
137.5°	6.6	119.0	304.2	433.1	486.0
140°	6.6	109.1	277.7	406.6	456.2
142.5°	6.6	102.5	251.3	376.9	423.2
145°	6.6	95.9	224.8	347.1	390.1
147.5°	6.6	89.3	201.7	317.4	357.1
150°	6.6	79.3	178.5	290.9	324.0
152.5°	9.9	72.7	158.7	257.9	290.9
155°	9.9	66.1	138.9	221.5	257.9
157.5°	9.9	59.5	119.0	185.1	224.8
160°	9.9	52.9	102.5	152.1	191.8
162.5°	9.9	49.6	89.3	125.6	162.0
165°	9.9	43.0	76.0	102.5	132.2
167.5°	9.9	33.1	62.8	79.3	109.1
170°	9.9	26.4	49.6	56.2	82.7
172.5°	9.9	19.8	36.4	39.7	43.0
175°	9.9	16.5	23.1	23.1	13.2
177.5°	9.9	13.2	13.2	13.2	6.6
180°	6.6	6.6	6.6	6.6	6.6

(END OF REPORT)