

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: P567587

Luminaire Tested: **8SNX-180HL-FDL-UNV-L835-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567587
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-180HL-FDL-UNV-L835-CD
Description: 8FT 18000 LUMEN, SNX FIXTURE WITH 3500K, 80CRI LEDS AND FDL LENS
Light Source: -
Ballast/Driver: -

Summary

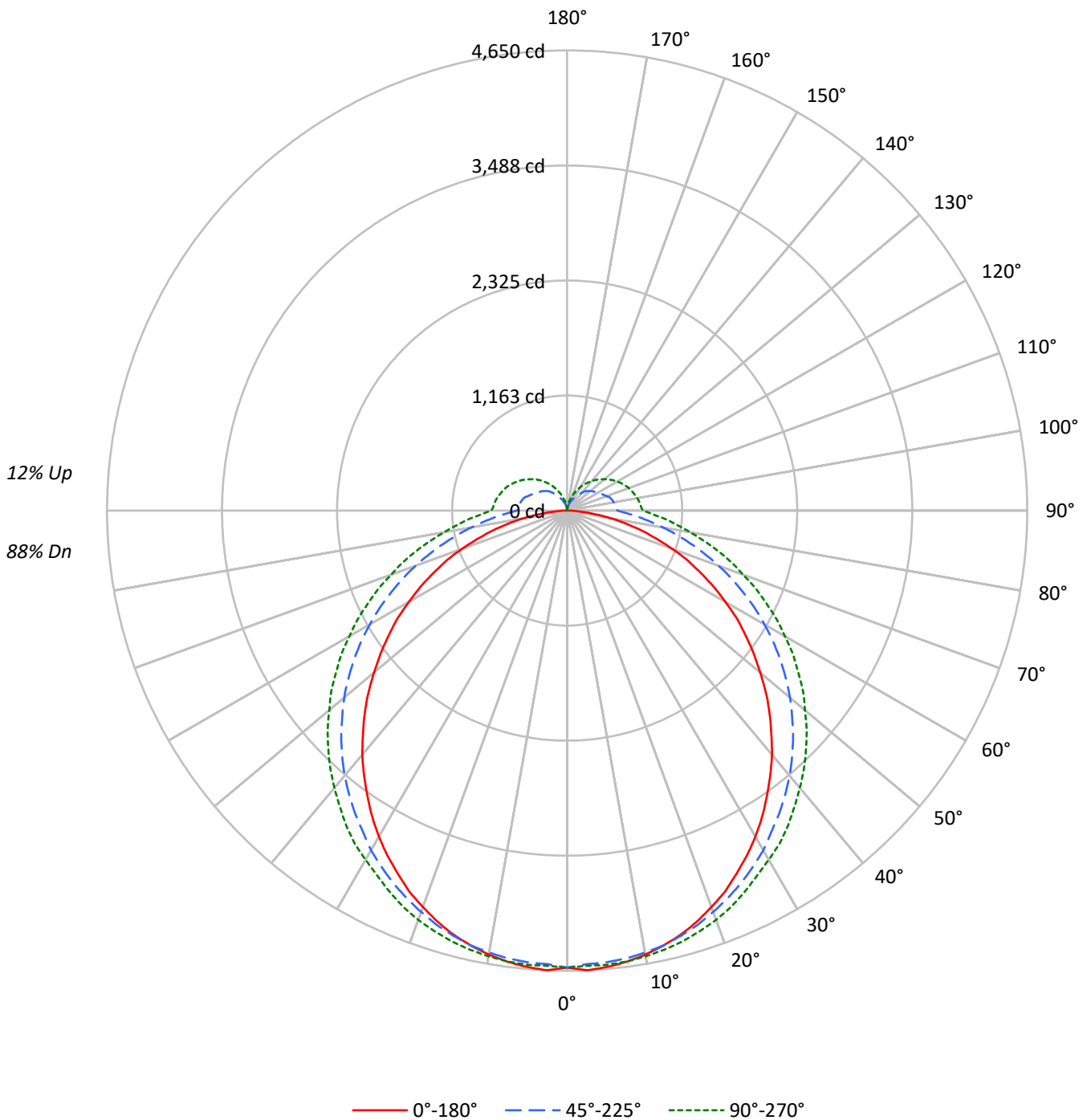
Lumens per Lamp: N/A
Luminaire Lumens: 16627.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.04')
CIE Type: Semi-Direct

Input Watts (W): 128.8
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°	24855	24855	24855
5°	25001	24490	24531
10°	24874	24268	24277
15°	24683	23999	24040
20°	24366	23675	23769
25°	23985	23346	23408
30°	23569	23016	23099
35°	23038	22619	22883
40°	22526	22292	22552
45°	21904	21913	22272
50°	21182	21511	21918
55°	20500	21013	21602
60°	19713	20483	21214
65°	18754	19876	20836
70°	17537	19213	20406
75°	15798	18493	20260
80°	13372	18076	20098
85°	9954	18545	21184



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.4	2.6
10°-20°	1261.2	7.6
20°-30°	1918.6	11.5
30°-40°	2332.9	14.0
40°-50°	2468.1	14.8
50°-60°	2313.5	13.9
60°-70°	1903.3	11.4
70°-80°	1316.9	7.9
80°-90°	732.3	4.4
90°-100°	482.4	2.9
100°-110°	432.6	2.6
110°-120°	358.1	2.2
120°-130°	276.8	1.7
130°-140°	196.0	1.2
140°-150°	118.2	0.7
150°-160°	56.8	0.3
160°-170°	18.6	0.1
170°-180°	2.3	0.0
0°-30°	3618.3	21.8
0°-40°	5951.2	35.8
0°-60°	10732.8	64.6
0°-90°	14685.3	88.3
90°-120°	1273.1	7.7
90°-150°	1864.1	11.2
90°-180°	1942.0	11.7
0°-180°	16627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4618	4618	4618	4618	4618	
5°	4630	4621	4581	4618	4607	439
15°	4436	4450	4448	4507	4507	1250
25°	4049	4106	4154	4245	4248	1866
35°	3519	3613	3736	3855	3889	2202
45°	2893	3044	3229	3374	3414	2230
55°	2201	2397	2628	2793	2850	1970
65°	1489	1703	1968	2161	2221	1476
75°	774	999	1293	1498	1580	822
85°	171	424	718	917	997	197
90°	3	239	507	698	766	11
95°	3	228	493	675	740	2
105°	3	196	461	635	692	3
115°	6	171	390	564	626	5
125°	6	145	333	481	541	5
135°	6	114	279	396	444	4
145°	6	83	194	299	336	4
155°	8	57	120	191	222	4
165°	8	37	66	88	114	2
175°	8	14	20	20	11	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4618.3	4618.3	4618.3	4618.3	4618.3
2.5°	4649.7	4635.4	4587.0	4618.3	4604.1
5°	4629.7	4621.2	4581.3	4618.3	4606.9
7.5°	4598.4	4595.6	4564.2	4606.9	4595.6
10°	4555.7	4561.4	4535.8	4581.3	4572.8
12.5°	4501.6	4510.1	4498.8	4550.0	4544.3
15°	4436.1	4450.3	4447.5	4507.3	4507.3
17.5°	4356.4	4376.3	4387.7	4456.0	4456.0
20°	4262.4	4293.7	4316.5	4390.6	4401.9
22.5°	4168.5	4205.5	4239.6	4316.5	4333.6
25°	4048.9	4105.8	4154.2	4245.3	4248.2
27.5°	3932.1	3994.8	4060.3	4148.5	4157.1
30°	3804.0	3883.7	3963.5	4048.9	4074.5
32.5°	3667.3	3755.6	3843.9	3957.8	3991.9
35°	3519.3	3613.2	3735.7	3855.3	3889.4
37.5°	3371.2	3476.6	3618.9	3741.4	3772.7
40°	3220.3	3337.0	3496.5	3621.8	3658.8
42.5°	3052.3	3194.7	3365.5	3499.3	3542.1
45°	2892.9	3043.8	3228.9	3374.1	3413.9
47.5°	2724.9	2884.3	3083.6	3237.4	3282.9
50°	2545.5	2727.7	2941.3	3095.0	3137.7
52.5°	2377.5	2562.6	2787.5	2947.0	3006.8
55°	2201.0	2397.4	2628.1	2793.2	2850.2
57.5°	2035.8	2223.7	2471.5	2636.6	2707.8
60°	1847.9	2055.8	2303.5	2482.9	2539.8
62.5°	1671.4	1882.1	2138.3	2323.4	2388.9
65°	1489.1	1702.7	1967.5	2161.1	2220.9
67.5°	1318.3	1529.0	1799.5	1990.3	2067.1
70°	1130.4	1352.5	1628.7	1825.1	1890.6
72.5°	945.3	1175.9	1457.8	1668.5	1742.6
75°	774.5	999.4	1292.7	1497.7	1580.3
77.5°	609.3	837.1	1133.2	1343.9	1415.1
80°	444.2	683.4	985.2	1193.0	1261.4
82.5°	293.3	543.8	842.8	1050.7	1124.7
85°	170.8	424.2	717.5	916.8	996.6
87.5°	74.0	321.7	600.8	797.2	862.7
90°	2.8	239.2	506.8	697.6	765.9
92.5°	2.8	233.5	495.4	683.4	748.8
95°	2.8	227.8	492.6	674.8	740.3
97.5°	2.8	224.9	486.9	669.1	731.8
100°	2.8	216.4	478.3	657.7	720.4
102.5°	2.8	205.0	469.8	646.3	706.1
105°	2.8	196.5	461.3	635.0	691.9
107.5°	2.8	187.9	447.0	620.7	677.7
110°	2.8	179.4	424.2	606.5	663.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.8	176.5	407.2	586.5	646.3
115°	5.7	170.8	390.1	563.8	626.4
117.5°	5.7	168.0	375.8	541.0	606.5
120°	5.7	159.4	361.6	521.1	583.7
122.5°	5.7	150.9	347.4	501.1	563.8
125°	5.7	145.2	333.1	481.2	541.0
127.5°	5.7	136.7	321.7	461.3	515.4
130°	5.7	131.0	307.5	438.5	492.6
132.5°	5.7	122.4	293.3	415.7	467.0
135°	5.7	113.9	279.0	395.8	444.2
137.5°	5.7	102.5	262.0	373.0	418.6
140°	5.7	94.0	239.2	350.2	392.9
142.5°	5.7	88.3	216.4	324.6	364.5
145°	5.7	82.6	193.6	299.0	336.0
147.5°	5.7	76.9	173.7	273.3	307.5
150°	5.7	68.3	153.8	250.6	279.0
152.5°	8.5	62.6	136.7	222.1	250.6
155°	8.5	56.9	119.6	190.8	222.1
157.5°	8.5	51.3	102.5	159.4	193.6
160°	8.5	45.6	88.3	131.0	165.1
162.5°	8.5	42.7	76.9	108.2	139.5
165°	8.5	37.0	65.5	88.3	113.9
167.5°	8.5	28.5	54.1	68.3	94.0
170°	8.5	22.8	42.7	48.4	71.2
172.5°	8.5	17.1	31.3	34.2	37.0
175°	8.5	14.2	19.9	19.9	11.4
177.5°	8.5	11.4	11.4	11.4	5.7
180°	5.7	5.7	5.7	5.7	5.7

(END OF REPORT)