

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: P567560

Luminaire Tested: **8SNX-174HL-LN-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-174HL-LN-UNV-L940-CD
Description: 8FT 17400 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

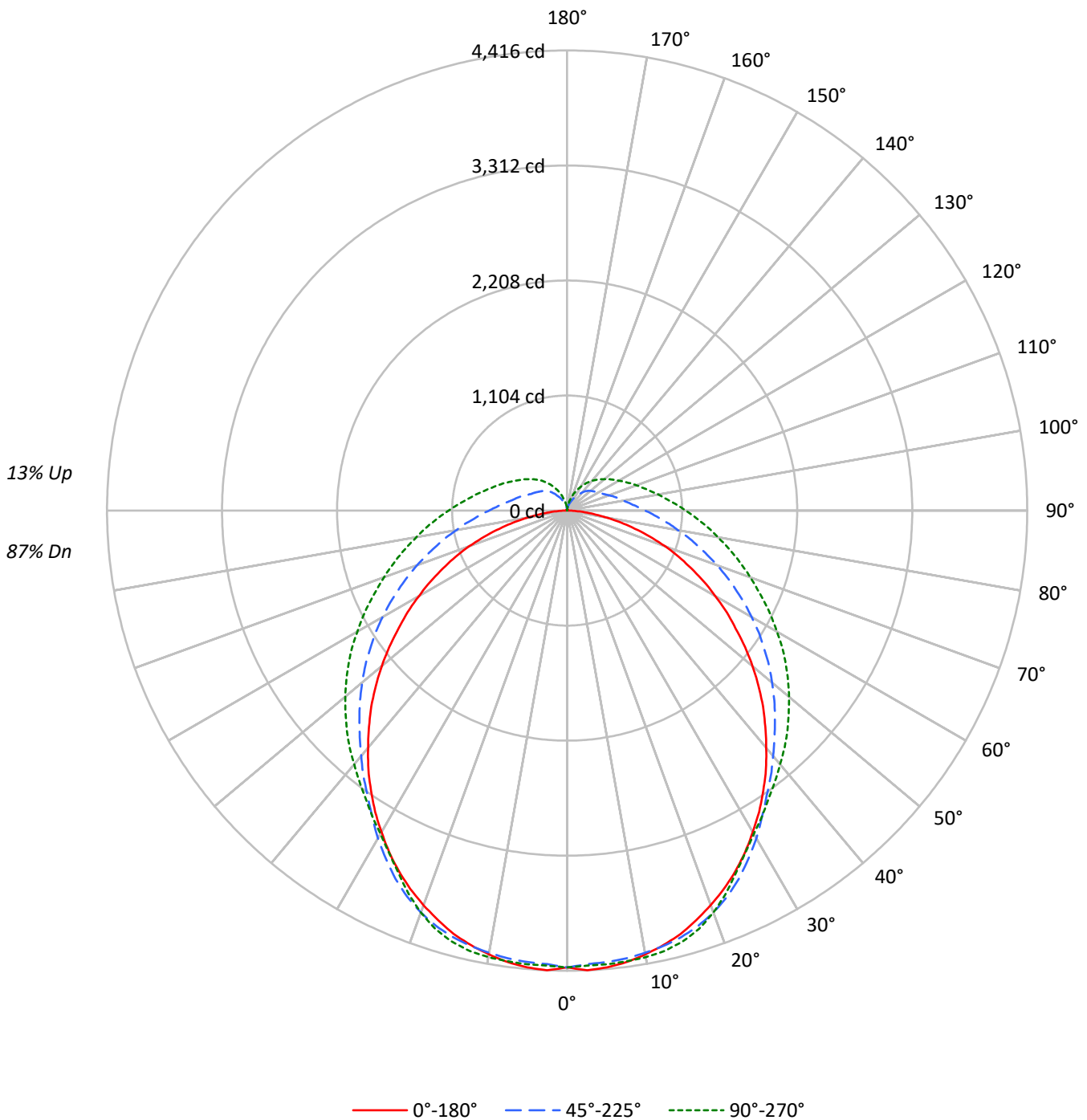
Lumens per Lamp: N/A
Luminaire Lumens: 15825.0 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 124.4
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	104	104	104	96	96	96	90	90	90	87
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68
2	94	85	77	71	90	82	75	69	76	70	66	71	66	62	66	62	59	56
3	85	74	65	58	81	71	63	57	66	60	54	62	56	52	58	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	53	45	40	49	43	38	46	41	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	42	36	32	29
7	61	47	38	32	58	46	38	32	43	36	30	41	34	29	38	33	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	39	31	26	51	38	31	25	36	29	24	34	28	24	32	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	30	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23593	23593	23593
5°	23727	22536	22310
10°	23548	21688	21280
15°	23309	20884	20242
20°	22906	19975	18919
25°	22469	18871	17367
30°	21879	17627	16072
35°	21248	16359	15106
40°	20526	15342	14323
45°	19823	14441	13649
50°	18982	13611	12969
55°	17993	12778	12303
60°	17058	11946	11607
65°	16025	11107	10968
70°	14854	10321	10392
75°	12993	9554	9916
80°	10561	8897	9513
85°	7626	8440	9283



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.5	2.6
10°-20°	1197.4	7.6
20°-30°	1783.0	11.3
30°-40°	2103.8	13.3
40°-50°	2194.1	13.9
50°-60°	2061.8	13.0
60°-70°	1741.2	11.0
70°-80°	1315.6	8.3
80°-90°	906.9	5.7
90°-100°	634.6	4.0
100°-110°	473.6	3.0
110°-120°	357.0	2.3
120°-130°	266.3	1.7
130°-140°	186.9	1.2
140°-150°	113.0	0.7
150°-160°	54.0	0.3
160°-170°	17.3	0.1
170°-180°	2.1	0.0
0°-30°	3396.8	21.5
0°-40°	5500.6	34.8
0°-60°	9756.5	61.7
0°-90°	13720.2	86.7
90°-120°	1465.3	9.3
90°-150°	2031.4	12.8
90°-180°	2105.0	13.3
0°-180°	15825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4384	4384	4384	4384	4384	
5°	4400	4392	4349	4381	4370	418
15°	4207	4226	4236	4290	4282	1185
25°	3820	3898	3898	3863	3834	1758
35°	3281	3402	3338	3364	3372	2052
45°	2659	2790	2820	2935	2989	2047
55°	1975	2144	2307	2492	2560	1772
65°	1315	1524	1781	2015	2093	1305
75°	673	934	1293	1564	1663	717
85°	153	480	896	1191	1296	171
90°	3	341	748	1036	1138	11
95°	3	266	633	907	1001	2
105°	5	190	488	708	789	5
115°	5	164	378	563	636	6
125°	8	140	319	462	520	7
135°	8	107	266	376	421	6
145°	11	78	185	287	322	6
155°	11	51	113	182	212	5
165°	13	32	59	80	107	4
175°	13	13	16	16	8	1
180°	8	8	8	8	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4383.8	4383.8	4383.8	4383.8	4383.8
2.5°	4416.0	4405.3	4357.0	4383.8	4370.4
5°	4399.9	4391.9	4348.9	4381.1	4370.4
7.5°	4370.4	4367.7	4335.5	4373.1	4362.4
10°	4324.8	4332.8	4308.7	4359.7	4351.6
12.5°	4271.1	4287.2	4279.2	4335.5	4327.5
15°	4206.7	4225.5	4236.3	4289.9	4281.9
17.5°	4120.9	4155.8	4179.9	4222.8	4209.4
20°	4029.7	4078.0	4104.8	4126.3	4104.8
22.5°	3930.4	3994.8	4010.9	4000.2	3978.7
25°	3820.4	3898.2	3898.2	3863.3	3833.8
27.5°	3697.0	3793.6	3766.8	3726.5	3702.4
30°	3562.9	3678.2	3632.6	3587.0	3581.6
32.5°	3428.7	3549.4	3482.4	3471.6	3479.7
35°	3281.2	3401.9	3337.5	3364.3	3372.4
37.5°	3133.6	3254.3	3211.4	3251.6	3275.8
40°	2972.6	3101.4	3074.6	3147.0	3179.2
42.5°	2814.3	2948.5	2945.8	3039.7	3088.0
45°	2658.7	2790.2	2819.7	2935.1	2988.7
47.5°	2489.7	2623.9	2696.3	2830.4	2884.1
50°	2323.4	2468.2	2567.5	2717.8	2779.5
52.5°	2151.7	2304.6	2441.4	2607.8	2672.1
55°	1974.6	2143.6	2307.3	2492.4	2559.5
57.5°	1816.3	1988.0	2181.2	2371.7	2449.5
60°	1641.9	1832.4	2044.4	2245.6	2323.4
62.5°	1483.6	1679.5	1915.6	2127.5	2210.7
65°	1314.6	1523.9	1781.4	2014.8	2092.6
67.5°	1159.0	1373.6	1655.3	1891.4	1977.3
70°	998.0	1226.1	1531.9	1781.4	1870.0
72.5°	831.7	1073.2	1408.5	1674.1	1765.3
75°	673.4	933.6	1293.1	1564.1	1663.4
77.5°	525.8	799.5	1188.5	1467.5	1564.1
80°	381.0	678.8	1078.5	1368.3	1467.5
82.5°	252.2	574.1	990.0	1279.7	1384.4
85°	152.9	480.2	896.1	1191.2	1295.8
87.5°	69.8	402.4	821.0	1113.4	1215.3
90°	2.7	340.7	748.5	1035.6	1137.5
92.5°	2.7	297.8	689.5	968.5	1067.8
95°	2.7	265.6	633.2	906.8	1000.7
97.5°	2.7	244.1	590.2	847.8	939.0
100°	2.7	222.7	547.3	794.1	888.0
102.5°	5.4	203.9	515.1	745.8	834.4
105°	5.4	190.5	488.3	708.3	788.8
107.5°	5.4	182.4	458.8	670.7	745.8
110°	5.4	174.4	426.6	633.2	708.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.4	169.0	402.4	601.0	673.4
115°	5.4	163.7	378.3	563.4	635.8
117.5°	5.4	161.0	364.9	533.9	603.6
120°	8.0	152.9	348.8	507.1	574.1
122.5°	8.0	144.9	332.7	485.6	544.6
125°	8.0	139.5	319.3	461.5	520.5
127.5°	8.0	131.5	305.8	440.0	493.6
130°	8.0	123.4	295.1	418.5	469.5
132.5°	8.0	115.4	281.7	397.1	445.4
135°	8.0	107.3	265.6	375.6	421.2
137.5°	8.0	99.3	249.5	354.1	397.1
140°	8.0	91.2	228.0	332.7	372.9
142.5°	8.0	83.2	206.6	311.2	346.1
145°	10.7	77.8	185.1	287.1	321.9
147.5°	10.7	69.8	163.7	262.9	292.4
150°	10.7	64.4	147.6	238.8	265.6
152.5°	10.7	56.3	131.5	211.9	238.8
155°	10.7	51.0	112.7	182.4	211.9
157.5°	10.7	45.6	96.6	152.9	185.1
160°	10.7	42.9	83.2	126.1	158.3
162.5°	13.4	37.6	69.8	101.9	131.5
165°	13.4	32.2	59.0	80.5	107.3
167.5°	13.4	26.8	48.3	61.7	83.2
170°	13.4	21.5	37.6	42.9	64.4
172.5°	13.4	16.1	26.8	29.5	32.2
175°	13.4	13.4	16.1	16.1	8.0
177.5°	13.4	13.4	10.7	8.0	2.7
180°	8.0	8.0	8.0	8.0	8.0

(END OF REPORT)