

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: P567464

Luminaire Tested: **8SNX-162HL-LN-UNV-L940-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567464
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-162HL-LN-UNV-L940-CD
Description: 8FT 16200 LUMEN, SNX FIXTURE WITH 4000K, 90CRI LEDS AND LN LENS
Light Source: -
Ballast/Driver: -

Summary

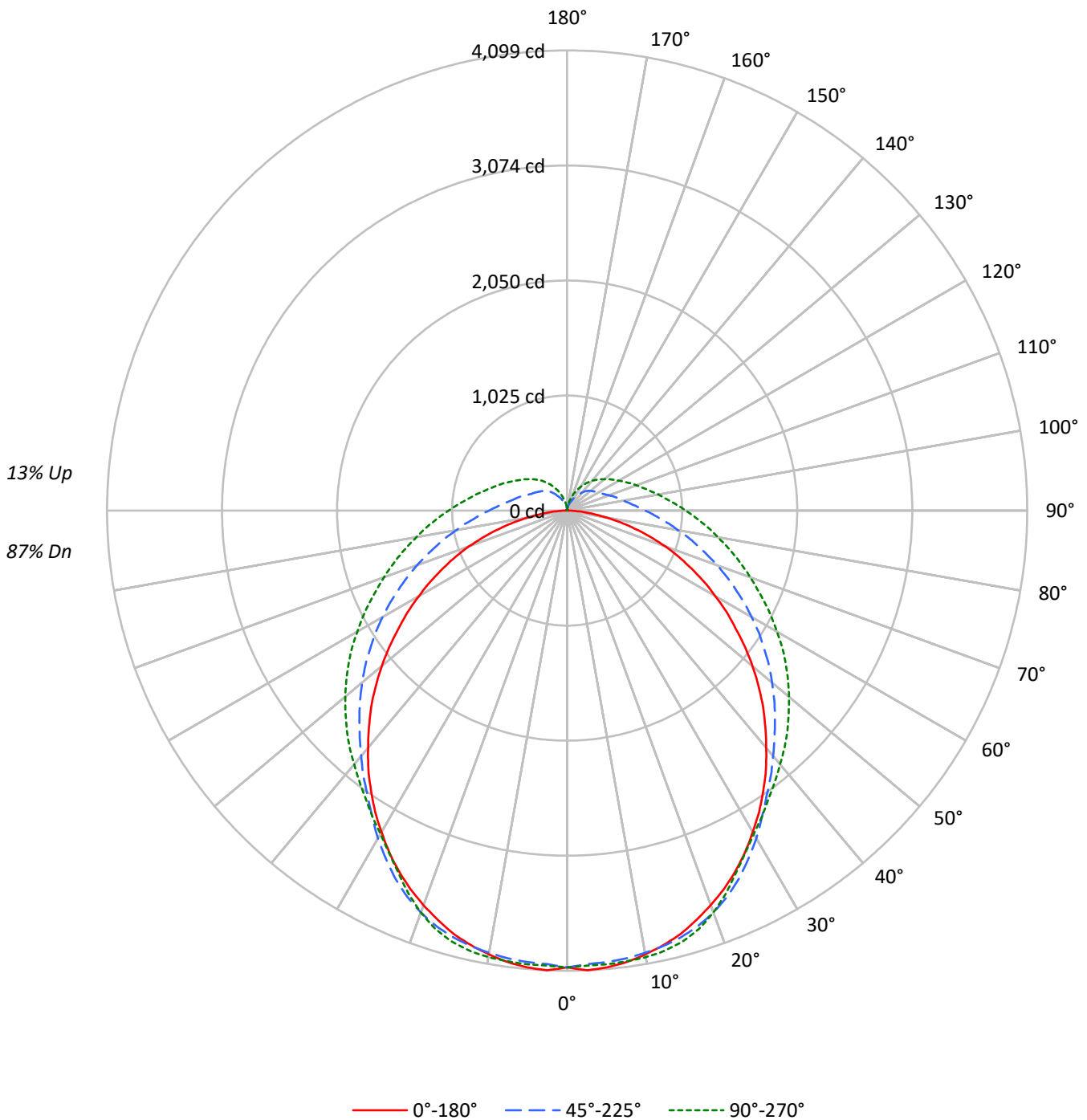
Lumens per Lamp: N/A
Luminaire Lumens: 14689.0 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 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

TEST NUMBER: P567464

CATALOG NUMBER: 8SNX-162HL-LN-UNV-L940-CD

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°	21900	21900	21900
5°	22024	20919	20709
10°	21858	20131	19752
15°	21636	19384	18789
20°	21261	18541	17561
25°	20856	17516	16121
30°	20308	16362	14918
35°	19722	15185	14021
40°	19052	14241	13295
45°	18400	13404	12669
50°	17619	12634	12037
55°	16701	11860	11419
60°	15834	11089	10773
65°	14874	10309	10181
70°	13788	9580	9645
75°	12061	8869	9205
80°	9801	8258	8831
85°	7077	7834	8616



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.6	2.6
10°-20°	1111.4	7.6
20°-30°	1655.0	11.3
30°-40°	1952.8	13.3
40°-50°	2036.6	13.9
50°-60°	1913.8	13.0
60°-70°	1616.2	11.0
70°-80°	1221.2	8.3
80°-90°	841.8	5.7
90°-100°	589.1	4.0
100°-110°	439.6	3.0
110°-120°	331.4	2.3
120°-130°	247.1	1.7
130°-140°	173.5	1.2
140°-150°	104.9	0.7
150°-160°	50.2	0.3
160°-170°	16.1	0.1
170°-180°	1.9	0.0
0°-30°	3152.9	21.5
0°-40°	5105.7	34.8
0°-60°	9056.1	61.7
0°-90°	12735.3	86.7
90°-120°	1360.1	9.3
90°-150°	1885.6	12.8
90°-180°	1954.0	13.3
0°-180°	14689.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4069	4069	4069	4069	4069	
5°	4084	4077	4037	4067	4057	388
15°	3905	3922	3932	3982	3974	1100
25°	3546	3618	3618	3586	3559	1632
35°	3046	3158	3098	3123	3130	1905
45°	2468	2590	2617	2724	2774	1901
55°	1833	1990	2142	2314	2376	1645
65°	1220	1414	1654	1870	1942	1212
75°	625	867	1200	1452	1544	666
85°	142	446	832	1106	1203	159
90°	2	316	695	961	1056	10
95°	2	246	588	842	929	2
105°	5	177	453	657	732	5
115°	5	152	351	523	590	5
125°	8	130	296	428	483	7
135°	8	100	246	349	391	6
145°	10	72	172	266	299	6
155°	10	47	105	169	197	5
165°	12	30	55	75	100	3
175°	12	12	15	15	8	1
180°	8	8	8	8	8	



TEST NUMBER: P567464

CATALOG NUMBER: 8SNX-162HL-LN-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4069.1	4069.1	4069.1	4069.1	4069.1
2.5°	4099.0	4089.0	4044.2	4069.1	4056.7
5°	4084.1	4076.6	4036.8	4066.6	4056.7
7.5°	4056.7	4054.2	4024.3	4059.2	4049.2
10°	4014.3	4021.8	3999.4	4046.7	4039.2
12.5°	3964.5	3979.5	3972.0	4024.3	4016.8
15°	3904.8	3922.2	3932.2	3982.0	3974.5
17.5°	3825.1	3857.5	3879.9	3919.7	3907.3
20°	3740.4	3785.2	3810.1	3830.1	3810.1
22.5°	3648.3	3708.0	3723.0	3713.0	3693.1
25°	3546.2	3618.4	3618.4	3586.0	3558.6
27.5°	3431.6	3521.3	3496.4	3459.0	3436.6
30°	3307.1	3414.2	3371.8	3329.5	3324.5
32.5°	3182.6	3294.6	3232.4	3222.4	3229.9
35°	3045.6	3157.7	3097.9	3122.8	3130.3
37.5°	2908.7	3020.7	2980.9	3018.2	3040.6
40°	2759.2	2878.8	2853.9	2921.1	2951.0
42.5°	2612.3	2736.8	2734.3	2821.5	2866.3
45°	2467.9	2589.9	2617.3	2724.4	2774.2
47.5°	2311.0	2435.5	2502.7	2627.3	2677.1
50°	2156.6	2291.1	2383.2	2522.7	2579.9
52.5°	1997.2	2139.2	2266.2	2420.6	2480.3
55°	1832.8	1989.7	2141.6	2313.5	2375.7
57.5°	1685.9	1845.3	2024.6	2201.4	2273.6
60°	1524.1	1700.9	1897.6	2084.4	2156.6
62.5°	1377.1	1558.9	1778.1	1974.8	2052.0
65°	1220.2	1414.5	1653.5	1870.2	1942.4
67.5°	1075.8	1275.0	1536.5	1755.7	1835.3
70°	926.4	1138.1	1422.0	1653.5	1735.7
72.5°	772.0	996.1	1307.4	1553.9	1638.6
75°	625.1	866.6	1200.3	1451.8	1544.0
77.5°	488.1	742.1	1103.2	1362.2	1451.8
80°	353.6	630.0	1001.1	1270.0	1362.2
82.5°	234.1	532.9	918.9	1187.9	1285.0
85°	141.9	445.8	831.8	1105.7	1202.8
87.5°	64.7	373.5	762.0	1033.5	1128.1
90°	2.5	316.3	694.8	961.3	1055.9
92.5°	2.5	276.4	640.0	899.0	991.1
95°	2.5	246.5	587.7	841.7	928.9
97.5°	2.5	226.6	547.9	786.9	871.6
100°	2.5	206.7	508.0	737.1	824.3
102.5°	5.0	189.3	478.1	692.3	774.5
105°	5.0	176.8	453.2	657.4	732.1
107.5°	5.0	169.3	425.8	622.6	692.3
110°	5.0	161.9	396.0	587.7	657.4



TEST NUMBER: P567464

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.0	156.9	373.5	557.8	625.1
115°	5.0	151.9	351.1	523.0	590.2
117.5°	5.0	149.4	338.7	495.6	560.3
120°	7.5	141.9	323.7	470.7	532.9
122.5°	7.5	134.5	308.8	450.7	505.5
125°	7.5	129.5	296.3	428.3	483.1
127.5°	7.5	122.0	283.9	408.4	458.2
130°	7.5	114.6	273.9	388.5	435.8
132.5°	7.5	107.1	261.5	368.6	413.4
135°	7.5	99.6	246.5	348.6	391.0
137.5°	7.5	92.1	231.6	328.7	368.6
140°	7.5	84.7	211.7	308.8	346.1
142.5°	7.5	77.2	191.8	288.9	321.2
145°	10.0	72.2	171.8	266.5	298.8
147.5°	10.0	64.7	151.9	244.0	271.4
150°	10.0	59.8	137.0	221.6	246.5
152.5°	10.0	52.3	122.0	196.7	221.6
155°	10.0	47.3	104.6	169.3	196.7
157.5°	10.0	42.3	89.7	141.9	171.8
160°	10.0	39.8	77.2	117.0	146.9
162.5°	12.5	34.9	64.7	94.6	122.0
165°	12.5	29.9	54.8	74.7	99.6
167.5°	12.5	24.9	44.8	57.3	77.2
170°	12.5	19.9	34.9	39.8	59.8
172.5°	12.5	14.9	24.9	27.4	29.9
175°	12.5	12.5	14.9	14.9	7.5
177.5°	12.5	12.5	10.0	7.5	2.5
180°	7.5	7.5	7.5	7.5	7.5

(END OF REPORT)