

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: P567756

Luminaire Tested: **8SNX-40SL-LW-UNV-L840-CD**

Issue Date: 9/15/2022



Test Information

Test Method: LM-79-08
Report Number: P567756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-622-4)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNX-40SL-LW-UNV-L840-CD
Description: 8FT 4000 LUMEN, SNX FIXTURE WITH 4000K, 80CRI LEDS AND LW LENS
Light Source: -
Ballast/Driver: -

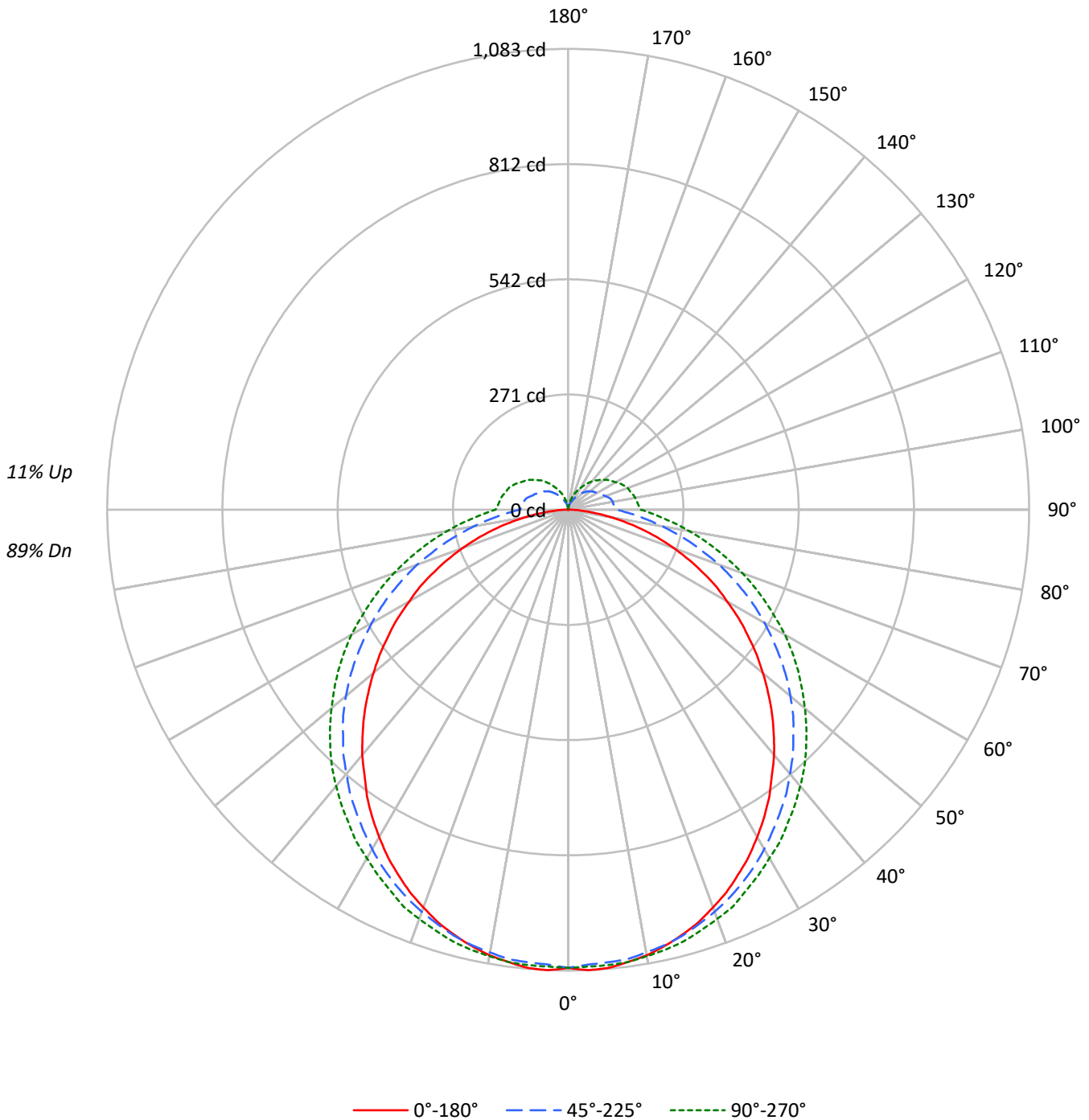
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3833.0 lumens
Efficiency: N/A
Efficacy: 158.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 24.2
Input Voltage (V): NR
Input Current (A_{in}): 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: P567756
CATALOG NUMBER: 8SNX-40SL-LW-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P567756

CATALOG NUMBER: 8SNX-40SL-LW-UNV-L840-CD

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	92	92	92	89
1	105	100	95	90	101	96	92	88	90	86	83	84	81	79	79	76	74	71
2	95	86	79	73	91	83	77	71	78	72	68	73	68	64	68	65	61	58
3	86	75	67	60	83	73	65	59	68	61	56	64	58	54	60	55	51	49
4	79	66	57	50	75	64	56	49	60	53	47	57	50	46	53	48	44	41
5	72	59	50	43	69	57	49	42	54	46	41	51	44	39	48	42	38	35
6	67	53	44	37	64	51	43	37	48	41	35	46	39	34	43	38	33	31
7	62	48	39	33	59	47	38	32	44	37	31	42	35	30	39	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	28	23	34	27	23	32	26	22	31	25	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5795	5795	5795
5°	5830	5533	5485
10°	5790	5319	5211
15°	5732	5111	4964
20°	5654	4894	4717
25°	5562	4686	4475
30°	5453	4471	4244
35°	5333	4255	4027
40°	5197	4043	3821
45°	5048	3831	3609
50°	4879	3613	3387
55°	4693	3369	3169
60°	4475	3113	2939
65°	4248	2837	2676
70°	3932	2543	2418
75°	3512	2198	2144
80°	2830	1850	1871
85°	1995	1527	1590



TEST NUMBER: P567756

CATALOG NUMBER: 8SNX-40SL-LW-UNV-L840-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	2.7
10°-20°	293.9	7.7
20°-30°	447.0	11.7
30°-40°	542.6	14.2
40°-50°	573.3	15.0
50°-60°	536.5	14.0
60°-70°	440.2	11.5
70°-80°	302.8	7.9
80°-90°	165.8	4.3
90°-100°	106.8	2.8
100°-110°	95.8	2.5
110°-120°	79.3	2.1
120°-130°	61.1	1.6
130°-140°	42.9	1.1
140°-150°	25.9	0.7
150°-160°	12.4	0.3
160°-170°	4.1	0.1
170°-180°	0.5	0.0
0°-30°	843.2	22.0
0°-40°	1385.7	36.2
0°-60°	2495.6	65.1
0°-90°	3404.3	88.8
90°-120°	281.9	7.4
90°-150°	411.7	10.7
90°-180°	429.0	11.2
0°-180°	3833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1081	1079	1068	1077	1074	103
15°	1034	1039	1037	1050	1050	292
25°	946	957	968	988	988	436
35°	824	844	868	892	899	514
45°	677	708	748	781	790	522
55°	515	557	608	646	659	461
65°	348	395	455	497	511	345
75°	182	231	298	344	360	192
85°	40	96	162	206	222	46
90°	0	53	113	155	171	3
95°	0	51	109	149	164	0
105°	0	42	102	140	153	1
115°	2	38	87	124	140	2
125°	2	31	73	107	120	2
135°	2	24	60	87	98	2
145°	2	18	42	67	73	1
155°	2	11	27	42	49	1
165°	2	7	13	20	24	1
175°	2	2	4	4	2	0
180°	2	2	2	2	2	



TEST NUMBER: P567756

CATALOG NUMBER: 8SNX-40SL-LW-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1076.7	1076.7	1076.7	1076.7	1076.7
2.5°	1083.4	1081.1	1070.0	1078.9	1074.5
5°	1081.1	1078.9	1067.8	1076.7	1074.5
7.5°	1072.3	1072.3	1065.6	1074.5	1072.3
10°	1063.4	1063.4	1056.7	1067.8	1065.6
12.5°	1050.1	1052.3	1047.8	1061.2	1058.9
15°	1034.5	1039.0	1036.7	1050.1	1050.1
17.5°	1016.8	1021.2	1021.2	1036.7	1036.7
20°	994.6	1001.2	1005.7	1023.4	1023.4
22.5°	972.4	981.2	987.9	1003.4	1010.1
25°	945.7	956.8	967.9	987.9	987.9
27.5°	919.1	932.4	945.7	965.7	967.9
30°	888.0	903.5	921.3	941.3	945.7
32.5°	856.9	876.9	894.7	919.1	925.7
35°	823.6	843.6	868.0	892.4	899.1
37.5°	785.9	810.3	841.4	868.0	874.7
40°	752.6	779.2	810.3	841.4	848.0
42.5°	714.8	743.7	781.4	810.3	821.4
45°	677.1	708.2	748.1	781.4	790.3
47.5°	637.1	672.7	717.1	748.1	759.2
50°	597.2	634.9	681.5	717.1	725.9
52.5°	557.2	597.2	646.0	681.5	692.6
55°	515.0	557.2	608.3	646.0	659.3
57.5°	475.1	517.3	570.5	610.5	623.8
60°	430.7	479.5	532.8	572.8	588.3
62.5°	392.9	437.3	495.1	535.0	548.3
65°	348.5	395.2	455.1	497.3	510.6
67.5°	306.4	355.2	415.1	459.5	472.9
70°	264.2	313.0	377.4	419.6	435.1
72.5°	222.0	273.1	335.2	381.8	397.4
75°	182.0	230.9	297.5	344.1	359.6
77.5°	139.9	193.1	259.7	306.4	324.1
80°	102.1	157.6	224.2	270.8	288.6
82.5°	68.8	124.3	190.9	237.5	255.3
85°	40.0	95.5	162.1	206.5	222.0
87.5°	20.0	73.3	135.4	179.8	195.4
90°	0.0	53.3	113.2	155.4	170.9
92.5°	0.0	51.1	111.0	151.0	166.5
95°	0.0	51.1	108.8	148.7	164.3
97.5°	0.0	48.8	106.6	148.7	162.1
100°	0.0	46.6	106.6	146.5	159.8
102.5°	0.0	44.4	104.3	144.3	157.6
105°	0.0	42.2	102.1	139.9	153.2
107.5°	2.2	42.2	97.7	137.6	151.0
110°	2.2	40.0	93.2	135.4	148.7



TEST NUMBER: P567756

CATALOG NUMBER: 8SNX-40SL-LW-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	37.7	88.8	131.0	144.3
115°	2.2	37.7	86.6	124.3	139.9
117.5°	2.2	35.5	82.1	119.9	135.4
120°	2.2	35.5	79.9	115.4	128.8
122.5°	2.2	33.3	75.5	111.0	124.3
125°	2.2	31.1	73.3	106.6	119.9
127.5°	2.2	28.9	71.0	102.1	115.4
130°	2.2	26.6	66.6	97.7	108.8
132.5°	2.2	26.6	64.4	91.0	104.3
135°	2.2	24.4	59.9	86.6	97.7
137.5°	2.2	22.2	55.5	82.1	93.2
140°	2.2	20.0	51.1	77.7	86.6
142.5°	2.2	20.0	46.6	71.0	79.9
145°	2.2	17.8	42.2	66.6	73.3
147.5°	2.2	15.5	37.7	59.9	66.6
150°	2.2	15.5	33.3	53.3	59.9
152.5°	2.2	13.3	28.9	48.8	55.5
155°	2.2	11.1	26.6	42.2	48.8
157.5°	2.2	11.1	22.2	35.5	42.2
160°	2.2	8.9	20.0	28.9	35.5
162.5°	2.2	8.9	17.8	24.4	31.1
165°	2.2	6.7	13.3	20.0	24.4
167.5°	2.2	6.7	11.1	15.5	20.0
170°	2.2	4.4	8.9	11.1	15.5
172.5°	2.2	4.4	6.7	6.7	6.7
175°	2.2	2.2	4.4	4.4	2.2
177.5°	2.2	2.2	2.2	2.2	2.2
180°	2.2	2.2	2.2	2.2	2.2

(END OF REPORT)