

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: P284545

Luminaire Tested: **4SNLED-LD5-45SL-SLW-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 45NLED-LD5-45SL-SLW-UNV-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4559.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

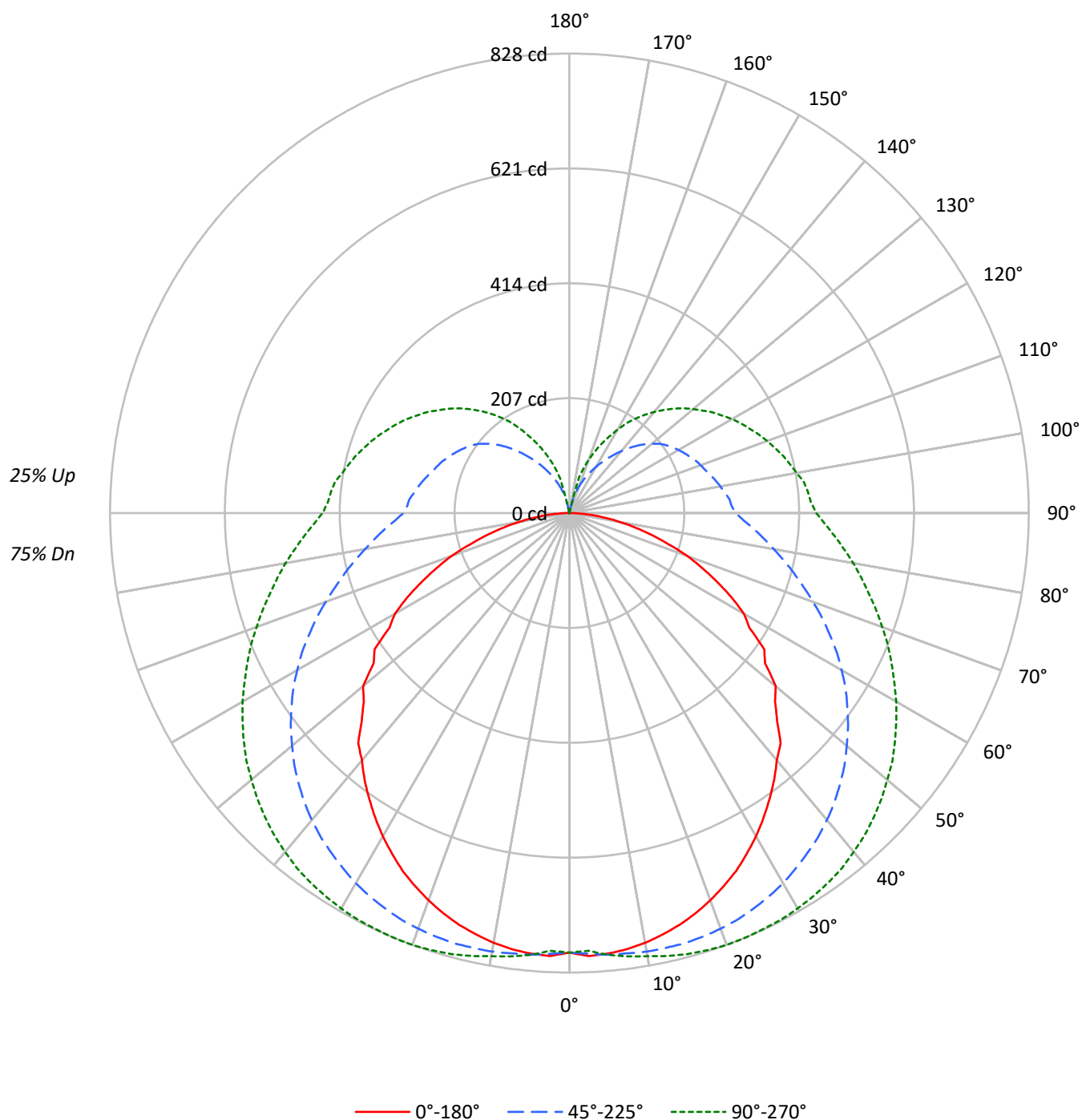
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75		
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60	56		
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48	44		
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39	36		
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33	30		
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28	25		
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24	22		
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21	19		
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19	17		
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17	15		
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6399	6399	6399
5°	6448	6322	6275
10°	6417	6267	6241
15°	6373	6234	6254
20°	6313	6205	6266
25°	6252	6182	6276
30°	6166	6163	6309
35°	6070	6142	6353
40°	5979	6137	6394
45°	5866	6123	6445
50°	5883	6110	6496
55°	5778	6109	6573
60°	5567	6113	6662
65°	5258	6121	6786
70°	4920	6167	6978
75°	4317	6309	7259
80°	3645	6613	7727
85°	2705	7229	8410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	1.7
10°-20°	225.5	4.9
20°-30°	358.4	7.9
30°-40°	460.0	10.1
40°-50°	519.5	11.4
50°-60°	530.1	11.6
60°-70°	491.1	10.8
70°-80°	415.8	9.1
80°-90°	331.9	7.3
90°-100°	281.8	6.2
100°-110°	251.1	5.5
110°-120°	213.8	4.7
120°-130°	169.9	3.7
130°-140°	120.5	2.6
140°-150°	72.0	1.6
150°-160°	33.5	0.7
160°-170°	8.0	0.2
170°-180°	0.0	0.0
0°-30°	660.1	14.5
0°-40°	1120.1	24.6
0°-60°	2169.7	47.6
0°-90°	3408.4	74.8
90°-120°	746.8	16.4
90°-150°	1109.1	24.3
90°-180°	1151.0	25.2
0°-180°	4559.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	792	792	792	792	792	
5°	797	791	799	799	799	76
15°	768	774	802	817	823	217
25°	711	735	786	814	827	327
35°	629	675	748	794	813	394
45°	529	601	690	750	776	411
55°	428	500	612	687	717	376
65°	293	391	518	606	641	291
75°	154	273	419	522	558	164
85°	40	176	334	442	480	43
90°	2	144	299	407	445	3
95°	0	135	289	395	432	0
105°	0	124	264	363	399	0
115°	0	116	240	327	359	0
125°	0	100	213	288	316	0
135°	0	74	171	243	266	0
145°	0	48	120	182	208	0
155°	1	30	74	111	138	1
165°	1	16	33	46	65	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	791.8	791.8	791.8	791.8	791.8
2.5°	799.0	790.7	795.0	793.8	789.5
5°	797.0	790.7	799.0	799.0	799.0
7.5°	792.7	788.3	800.2	804.5	805.7
10°	786.3	786.3	802.5	808.9	810.9
12.5°	777.6	780.8	802.5	812.0	817.3
15°	768.1	774.5	802.5	817.3	822.7
17.5°	756.3	767.0	800.2	818.4	825.9
20°	742.4	758.6	797.0	818.4	828.2
22.5°	727.3	747.9	792.7	816.4	828.2
25°	711.4	734.9	786.3	814.1	827.1
27.5°	692.1	722.1	778.8	810.9	825.9
30°	672.7	707.1	770.1	806.6	822.7
32.5°	651.3	690.9	759.4	800.2	818.4
35°	628.8	675.0	747.9	793.8	813.2
37.5°	606.2	655.7	736.0	785.2	806.6
40°	581.6	636.3	722.1	774.5	797.0
42.5°	563.4	616.0	707.1	763.8	787.5
45°	529.3	601.0	689.8	749.9	775.6
47.5°	502.4	572.1	672.7	736.0	762.6
50°	485.4	548.4	652.5	719.8	747.9
52.5°	444.6	532.5	633.1	703.9	733.7
55°	428.4	500.4	611.7	686.6	716.6
57.5°	384.5	477.9	590.3	667.5	698.4
60°	363.1	446.6	566.6	648.1	680.2
62.5°	329.8	420.0	543.2	626.7	660.0
65°	293.4	391.1	517.5	606.2	640.6
67.5°	259.3	362.2	492.9	584.8	621.3
70°	226.1	332.2	467.2	563.4	599.9
72.5°	187.3	302.1	442.3	543.2	579.6
75°	154.4	273.2	418.9	521.8	558.2
77.5°	122.0	245.4	396.3	502.4	538.9
80°	92.2	218.6	373.8	482.2	519.5
82.5°	64.2	196.0	353.6	462.8	499.3
85°	39.6	175.8	334.2	442.3	479.9
87.5°	18.2	157.6	314.8	423.2	461.7
90°	2.0	143.7	298.9	407.0	444.6
92.5°	1.2	139.3	292.6	399.5	435.9
95°	0.0	135.0	289.4	395.2	431.6
97.5°	0.0	130.7	281.9	388.8	426.4
100°	0.0	128.6	276.4	379.3	415.7
102.5°	0.0	125.5	270.0	370.6	407.0
105°	0.0	124.3	263.6	363.1	398.7
107.5°	0.0	122.0	257.0	353.6	388.8
110°	0.0	120.0	251.8	344.9	379.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	117.9	246.3	336.5	369.5
115°	0.0	115.6	239.9	326.7	358.8
117.5°	0.0	112.5	233.6	317.1	349.2
120°	0.0	108.1	227.2	308.5	338.5
122.5°	0.0	103.8	220.6	297.8	326.7
125°	0.0	99.7	213.1	288.2	316.0
127.5°	0.0	93.1	204.7	277.5	303.3
130°	0.0	86.7	194.0	266.8	291.4
132.5°	1.2	80.4	183.3	255.0	279.5
135°	0.0	74.0	171.4	243.1	265.7
137.5°	0.0	68.5	158.4	230.4	251.8
140°	0.0	62.2	145.7	215.4	237.9
142.5°	0.0	54.6	133.0	199.2	222.9
145°	0.0	48.3	120.0	182.1	207.9
147.5°	1.2	42.8	108.1	163.9	191.7
150°	1.2	38.4	96.6	145.7	173.5
152.5°	1.2	34.4	84.7	128.6	155.2
155°	1.2	30.1	74.0	111.3	138.2
157.5°	1.2	25.7	62.2	94.2	120.0
160°	1.2	22.5	51.5	79.2	102.9
162.5°	1.2	19.4	41.9	62.2	84.7
165°	1.2	16.2	33.2	46.0	65.3
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)