

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: P284739

Luminaire Tested: **4SNLED-LD5-41SL-SLW-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284739
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: 4SNLED-LD5-41SL-SLW-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3789.0 lumens
Efficiency: N/A
Efficacy: 99.7 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

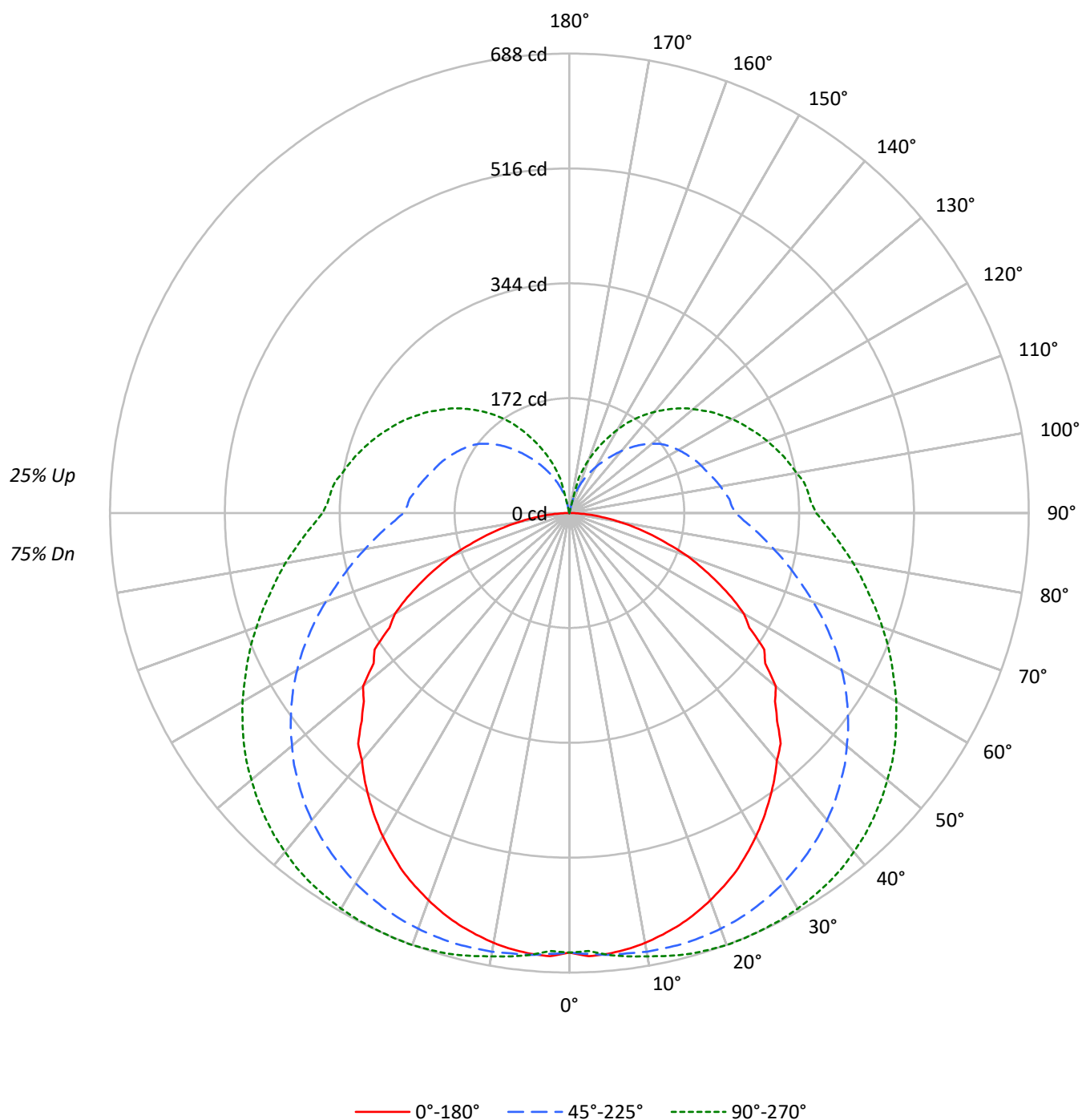
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5318	5318	5318
5°	5359	5255	5216
10°	5333	5209	5187
15°	5297	5181	5198
20°	5246	5157	5208
25°	5197	5138	5216
30°	5125	5123	5244
35°	5045	5104	5280
40°	4969	5101	5314
45°	4875	5089	5356
50°	4889	5078	5399
55°	4803	5078	5463
60°	4627	5081	5537
65°	4371	5087	5640
70°	4089	5125	5798
75°	3587	5243	6033
80°	3028	5496	6422
85°	2248	6007	6989



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	1.7
10°-20°	187.4	4.9
20°-30°	297.9	7.9
30°-40°	382.3	10.1
40°-50°	431.8	11.4
50°-60°	440.6	11.6
60°-70°	408.2	10.8
70°-80°	345.6	9.1
80°-90°	275.8	7.3
90°-100°	234.2	6.2
100°-110°	208.7	5.5
110°-120°	177.7	4.7
120°-130°	141.2	3.7
130°-140°	100.2	2.6
140°-150°	59.8	1.6
150°-160°	27.9	0.7
160°-170°	6.6	0.2
170°-180°	0.0	0.0
0°-30°	548.6	14.5
0°-40°	930.9	24.6
0°-60°	1803.3	47.6
0°-90°	2832.8	74.8
90°-120°	620.6	16.4
90°-150°	921.7	24.3
90°-180°	956.0	25.2
0°-180°	3789.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	662	657	664	664	664	63
15°	638	644	667	679	684	180
25°	591	611	654	677	687	272
35°	523	561	622	660	676	327
45°	440	500	573	623	645	342
55°	356	416	508	571	596	313
65°	244	325	430	504	532	242
75°	128	227	348	434	464	136
85°	33	146	278	368	399	36
90°	2	119	248	338	370	3
95°	0	112	240	328	359	0
105°	0	103	219	302	331	0
115°	0	96	199	272	298	0
125°	0	83	177	240	263	0
135°	0	62	142	202	221	0
145°	0	40	100	151	173	0
155°	1	25	62	92	115	0
165°	1	14	28	38	54	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°	658.1	658.1	658.1	658.1	658.1
2.5°	664.1	657.1	660.7	659.8	656.2
5°	662.4	657.1	664.1	664.1	664.1
7.5°	658.8	655.2	665.0	668.6	669.6
10°	653.5	653.5	667.0	672.3	673.9
12.5°	646.3	648.9	667.0	674.9	679.2
15°	638.4	643.7	667.0	679.2	683.8
17.5°	628.5	637.4	665.0	680.2	686.4
20°	617.0	630.4	662.4	680.2	688.4
22.5°	604.5	621.6	658.8	678.5	688.4
25°	591.3	610.7	653.5	676.6	687.4
27.5°	575.2	600.2	647.3	673.9	686.4
30°	559.1	587.7	640.1	670.3	683.8
32.5°	541.3	574.2	631.2	665.0	680.2
35°	522.6	561.0	621.6	659.8	675.9
37.5°	503.8	544.9	611.7	652.6	670.3
40°	483.4	528.8	600.2	643.7	662.4
42.5°	468.3	512.0	587.7	634.8	654.5
45°	439.9	499.5	573.3	623.2	644.6
47.5°	417.6	475.5	559.1	611.7	633.8
50°	403.4	455.8	542.3	598.3	621.6
52.5°	369.5	442.6	526.2	585.0	609.8
55°	356.1	415.9	508.4	570.6	595.6
57.5°	319.5	397.2	490.6	554.8	580.5
60°	301.8	371.2	470.9	538.7	565.3
62.5°	274.1	349.1	451.5	520.9	548.5
65°	243.9	325.1	430.1	503.8	532.4
67.5°	215.5	301.0	409.6	486.1	516.3
70°	187.9	276.1	388.3	468.3	498.5
72.5°	155.7	251.1	367.6	451.5	481.7
75°	128.3	227.0	348.1	433.7	463.9
77.5°	101.4	204.0	329.4	417.6	447.8
80°	76.6	181.6	310.7	400.8	431.8
82.5°	53.3	162.9	293.8	384.7	414.9
85°	32.9	146.1	277.7	367.6	398.8
87.5°	15.1	130.9	261.6	351.7	383.7
90°	1.7	119.4	248.4	338.3	369.5
92.5°	1.0	115.8	243.1	332.0	362.3
95°	0.0	112.2	240.5	328.4	358.7
97.5°	0.0	108.6	234.3	323.2	354.4
100°	0.0	106.9	229.7	315.2	345.5
102.5°	0.0	104.3	224.4	308.0	338.3
105°	0.0	103.3	219.1	301.8	331.3
107.5°	0.0	101.4	213.6	293.8	323.2
110°	0.0	99.7	209.3	286.6	315.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	98.0	204.7	279.7	307.1
115°	0.0	96.1	199.4	271.5	298.2
117.5°	0.0	93.5	194.1	263.6	290.2
120°	0.0	89.9	188.8	256.4	281.3
122.5°	0.0	86.3	183.3	247.5	271.5
125°	0.0	82.9	177.1	239.5	262.6
127.5°	0.0	77.4	170.1	230.7	252.0
130°	0.0	72.1	161.2	221.8	242.2
132.5°	1.0	66.8	152.3	211.9	232.3
135°	0.0	61.5	142.5	202.1	220.8
137.5°	0.0	56.9	131.7	191.5	209.3
140°	0.0	51.7	121.1	179.0	197.7
142.5°	0.0	45.4	110.5	165.5	185.2
145°	0.0	40.1	99.7	151.4	172.7
147.5°	1.0	35.6	89.9	136.2	159.3
150°	1.0	32.0	80.2	121.1	144.2
152.5°	1.0	28.6	70.4	106.9	129.0
155°	1.0	25.0	61.5	92.5	114.8
157.5°	1.0	21.4	51.7	78.3	99.7
160°	1.0	18.7	42.8	65.8	85.5
162.5°	1.0	16.1	34.8	51.7	70.4
165°	1.0	13.5	27.6	38.2	54.3
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)