

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: P284665

Luminaire Tested: **4SNLED-LD5-54SL-SLW-UNV-L935-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P284665
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-LD5-54SL-SLW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4557.0 lumens
Efficiency: N/A
Efficacy: 82.9 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

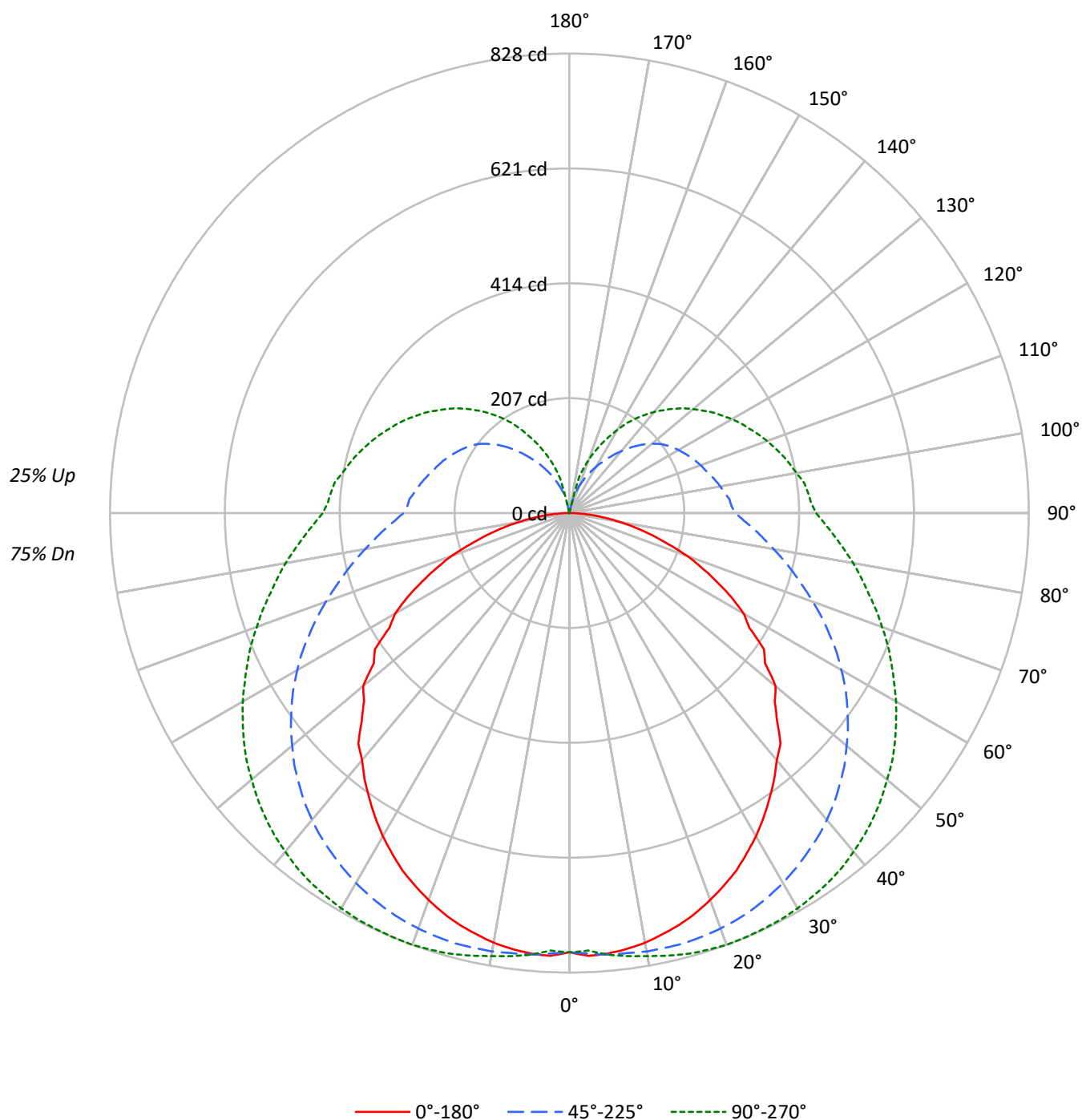
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6396	6396	6396
5°	6445	6320	6273
10°	6414	6265	6238
15°	6370	6231	6251
20°	6310	6202	6264
25°	6249	6180	6273
30°	6163	6160	6307
35°	6067	6138	6349
40°	5976	6134	6391
45°	5863	6120	6442
50°	5881	6107	6493
55°	5775	6106	6570
60°	5564	6111	6659
65°	5256	6117	6783
70°	4918	6164	6974
75°	4314	6306	7256
80°	3645	6609	7724
85°	2705	7225	8407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	1.7
10°-20°	225.4	4.9
20°-30°	358.3	7.9
30°-40°	459.8	10.1
40°-50°	519.3	11.4
50°-60°	529.9	11.6
60°-70°	490.9	10.8
70°-80°	415.6	9.1
80°-90°	331.7	7.3
90°-100°	281.7	6.2
100°-110°	251.0	5.5
110°-120°	213.8	4.7
120°-130°	169.8	3.7
130°-140°	120.5	2.6
140°-150°	71.9	1.6
150°-160°	33.5	0.7
160°-170°	8.0	0.2
170°-180°	0.0	0.0
0°-30°	659.8	14.5
0°-40°	1119.6	24.6
0°-60°	2168.7	47.6
0°-90°	3407.0	74.8
90°-120°	746.4	16.4
90°-150°	1108.6	24.3
90°-180°	1150.0	25.2
0°-180°	4557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	792	792	792	792	792	
5°	797	790	799	799	799	76
15°	768	774	802	817	822	217
25°	711	734	786	814	827	327
35°	628	675	748	794	813	393
45°	529	601	690	750	775	411
55°	428	500	611	686	716	376
65°	293	391	517	606	640	291
75°	154	273	419	522	558	164
85°	40	176	334	442	480	43
90°	2	144	299	407	444	3
95°	0	135	289	395	431	0
105°	0	124	264	363	398	0
115°	0	116	240	326	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°	791.5	791.5	791.5	791.5	791.5
2.5°	798.7	790.3	794.6	793.5	789.2
5°	796.7	790.3	798.7	798.7	798.7
7.5°	792.3	788.0	799.8	804.2	805.3
10°	786.0	786.0	802.2	808.5	810.5
12.5°	777.3	780.5	802.2	811.7	816.9
15°	767.8	774.1	802.2	816.9	822.4
17.5°	755.9	766.6	799.8	818.0	825.6
20°	742.1	758.2	796.7	818.0	827.9
22.5°	727.0	747.5	792.3	816.0	827.9
25°	711.1	734.5	786.0	813.7	826.7
27.5°	691.8	721.8	778.5	810.5	825.6
30°	672.4	706.8	769.8	806.2	822.4
32.5°	651.0	690.6	759.1	799.8	818.0
35°	628.5	674.7	747.5	793.5	812.8
37.5°	606.0	655.4	735.7	784.8	806.2
40°	581.4	636.0	721.8	774.1	796.7
42.5°	563.2	615.8	706.8	763.4	787.1
45°	529.1	600.8	689.5	749.6	775.3
47.5°	502.2	571.9	672.4	735.7	762.3
50°	485.2	548.2	652.2	719.5	747.5
52.5°	444.4	532.3	632.8	703.6	733.4
55°	428.2	500.2	611.4	686.3	716.3
57.5°	384.3	477.7	590.1	667.2	698.1
60°	362.9	446.4	566.4	647.9	679.9
62.5°	329.7	419.9	543.0	626.5	659.7
65°	293.3	391.0	517.2	606.0	640.3
67.5°	259.2	362.1	492.7	584.6	621.0
70°	226.0	332.0	467.0	563.2	599.6
72.5°	187.2	302.0	442.1	543.0	579.4
75°	154.3	273.1	418.7	521.6	558.0
77.5°	121.9	245.3	396.2	502.2	538.6
80°	92.2	218.5	373.6	482.0	519.3
82.5°	64.1	195.9	353.4	462.6	499.0
85°	39.6	175.7	334.0	442.1	479.7
87.5°	18.2	157.5	314.7	423.0	461.5
90°	2.0	143.6	298.8	406.9	444.4
92.5°	1.2	139.3	292.4	399.3	435.8
95°	0.0	134.9	289.3	395.0	431.4
97.5°	0.0	130.6	281.7	388.7	426.2
100°	0.0	128.6	276.2	379.1	415.5
102.5°	0.0	125.4	269.9	370.4	406.9
105°	0.0	124.3	263.5	362.9	398.5
107.5°	0.0	121.9	256.9	353.4	388.7
110°	0.0	119.9	251.7	344.7	379.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	117.9	246.2	336.4	369.3
115°	0.0	115.6	239.8	326.5	358.6
117.5°	0.0	112.4	233.5	317.0	349.1
120°	0.0	108.1	227.1	308.3	338.4
122.5°	0.0	103.7	220.5	297.6	326.5
125°	0.0	99.7	213.0	288.1	315.8
127.5°	0.0	93.0	204.6	277.4	303.1
130°	0.0	86.7	193.9	266.7	291.3
132.5°	1.2	80.3	183.2	254.9	279.4
135°	0.0	74.0	171.4	243.0	265.6
137.5°	0.0	68.5	158.4	230.3	251.7
140°	0.0	62.1	145.6	215.3	237.8
142.5°	0.0	54.6	132.9	199.1	222.8
145°	0.0	48.3	119.9	182.0	207.8
147.5°	1.2	42.8	108.1	163.8	191.6
150°	1.2	38.4	96.5	145.6	173.4
152.5°	1.2	34.4	84.7	128.6	155.2
155°	1.2	30.1	74.0	111.3	138.1
157.5°	1.2	25.7	62.1	94.2	119.9
160°	1.2	22.5	51.4	79.2	102.9
162.5°	1.2	19.4	41.9	62.1	84.7
165°	1.2	16.2	33.2	45.9	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)