

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: P284666

Luminaire Tested: **4SNLED-LD5-64SL-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: P284666
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-LD5-64SL-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: 5356.0 lumens
Efficiency: N/A
Efficacy: 76.5 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

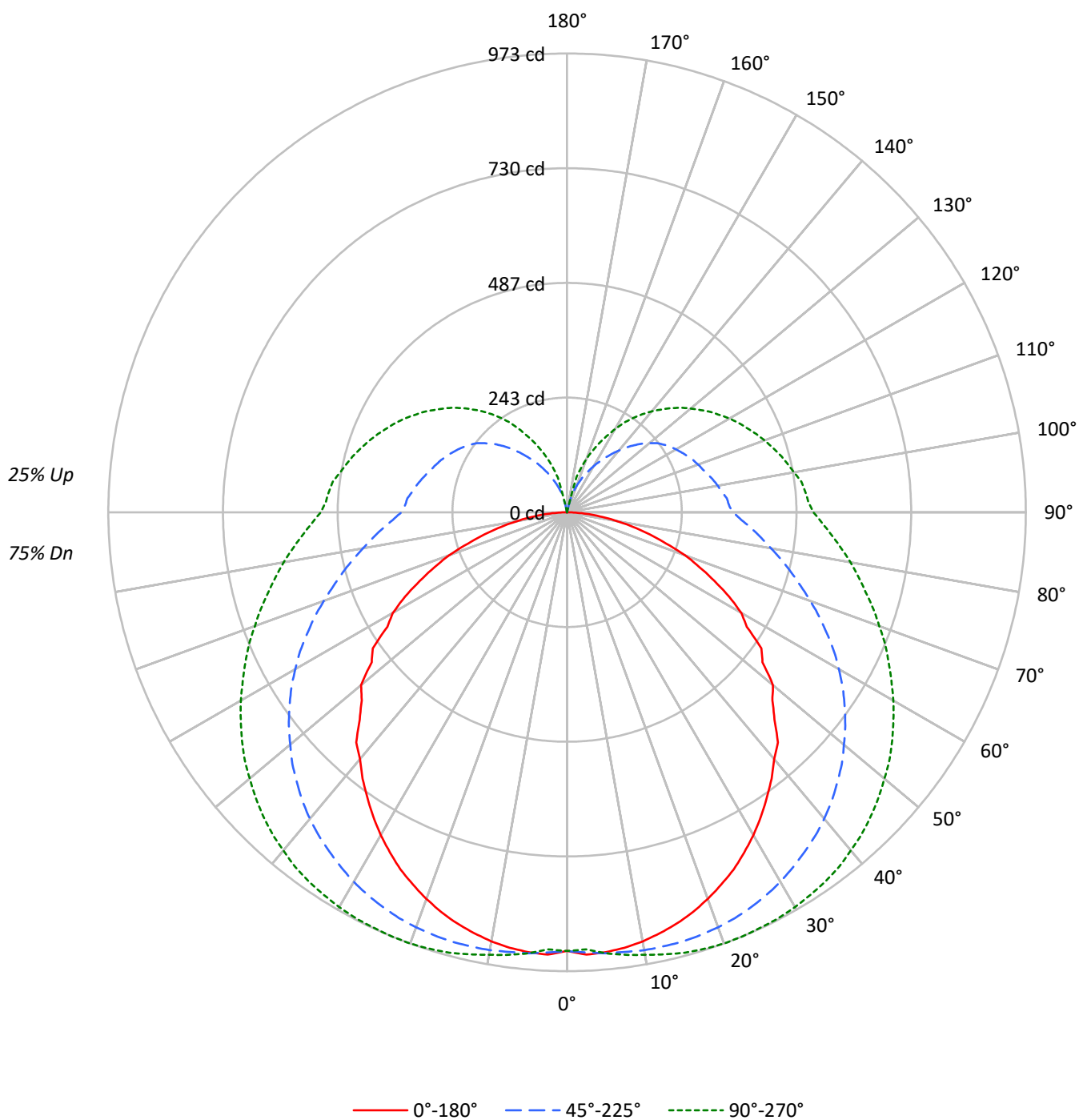
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7517	7517	7517
5°	7574	7428	7373
10°	7539	7363	7332
15°	7487	7323	7348
20°	7416	7289	7362
25°	7345	7263	7373
30°	7244	7241	7413
35°	7131	7215	7463
40°	7024	7210	7511
45°	6892	7192	7571
50°	6911	7177	7632
55°	6788	7177	7722
60°	6541	7182	7827
65°	6177	7190	7973
70°	5779	7244	8197
75°	5072	7412	8528
80°	4281	7768	9077
85°	3177	8492	9881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	1.7
10°-20°	265.0	4.9
20°-30°	421.1	7.9
30°-40°	540.5	10.1
40°-50°	610.3	11.4
50°-60°	622.8	11.6
60°-70°	577.0	10.8
70°-80°	488.4	9.1
80°-90°	389.9	7.3
90°-100°	331.1	6.2
100°-110°	295.0	5.5
110°-120°	251.2	4.7
120°-130°	199.5	3.7
130°-140°	141.6	2.6
140°-150°	84.5	1.6
150°-160°	39.4	0.7
160°-170°	9.4	0.2
170°-180°	0.0	0.0
0°-30°	775.5	14.5
0°-40°	1315.9	24.6
0°-60°	2549.0	47.6
0°-90°	4004.3	74.8
90°-120°	877.3	16.4
90°-150°	1302.9	24.3
90°-180°	1352.0	25.2
0°-180°	5356.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	930	930	930	930	930	
5°	936	929	939	939	939	89
15°	902	910	943	960	967	255
25°	836	863	924	956	972	385
35°	739	793	879	933	955	462
45°	622	706	810	881	911	483
55°	503	588	719	807	842	442
65°	345	460	608	712	753	342
75°	181	321	492	613	656	193
85°	46	206	393	520	564	51
90°	2	169	351	478	522	4
95°	0	159	340	464	507	0
105°	0	146	310	427	468	0
115°	0	136	282	384	422	0
125°	0	117	250	339	371	0
135°	0	87	201	286	312	0
145°	0	57	141	214	244	1
155°	1	35	87	131	162	1
165°	1	19	39	54	77	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°	930.2	930.2	930.2	930.2	930.2
2.5°	938.7	928.9	934.0	932.6	927.5
5°	936.3	928.9	938.7	938.7	938.7
7.5°	931.3	926.2	940.1	945.2	946.5
10°	923.8	923.8	942.8	950.3	952.7
12.5°	913.6	917.3	942.8	954.0	960.1
15°	902.4	909.9	942.8	960.1	966.6
17.5°	888.5	901.0	940.1	961.5	970.3
20°	872.2	891.2	936.3	961.5	973.0
22.5°	854.5	878.6	931.3	959.1	973.0
25°	835.8	863.3	923.8	956.4	971.7
27.5°	813.1	848.4	915.0	952.7	970.3
30°	790.3	830.7	904.8	947.6	966.6
32.5°	765.2	811.7	892.2	940.1	961.5
35°	738.7	793.0	878.6	932.6	955.4
37.5°	712.2	770.3	864.7	922.4	947.6
40°	683.3	747.5	848.4	909.9	936.3
42.5°	661.9	723.7	830.7	897.3	925.1
45°	621.9	706.1	810.3	881.0	911.2
47.5°	590.3	672.1	790.3	864.7	895.9
50°	570.2	644.3	766.5	845.7	878.6
52.5°	522.3	625.6	743.8	827.0	862.0
55°	503.3	587.9	718.6	806.6	841.9
57.5°	451.7	561.4	693.5	784.2	820.5
60°	426.6	524.7	665.7	761.4	799.1
62.5°	387.5	493.5	638.2	736.3	775.4
65°	344.7	459.5	607.9	712.2	752.6
67.5°	304.6	425.6	579.1	687.1	729.9
70°	265.6	390.2	548.8	661.9	704.7
72.5°	220.1	354.9	519.6	638.2	681.0
75°	181.4	320.9	492.1	613.0	655.8
77.5°	143.3	288.3	465.6	590.3	633.1
80°	108.3	256.8	439.1	566.5	610.3
82.5°	75.4	230.3	415.4	543.7	586.5
85°	46.5	206.5	392.6	519.6	563.8
87.5°	21.4	185.1	369.9	497.2	542.4
90°	2.4	168.8	351.2	478.2	522.3
92.5°	1.4	163.7	343.7	469.4	512.2
95°	0.0	158.6	340.0	464.3	507.1
97.5°	0.0	153.5	331.1	456.8	500.9
100°	0.0	151.1	324.7	445.6	488.4
102.5°	0.0	147.4	317.2	435.4	478.2
105°	0.0	146.0	309.7	426.6	468.3
107.5°	0.0	143.3	301.9	415.4	456.8
110°	0.0	140.9	295.8	405.2	445.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	138.6	289.4	395.3	434.0
115°	0.0	135.9	281.9	383.8	421.5
117.5°	0.0	132.1	274.4	372.6	410.3
120°	0.0	127.0	266.9	362.4	397.7
122.5°	0.0	121.9	259.1	349.8	383.8
125°	0.0	117.2	250.3	338.6	371.2
127.5°	0.0	109.4	240.5	326.0	356.3
130°	0.0	101.9	227.9	313.5	342.3
132.5°	1.4	94.4	215.3	299.6	328.4
135°	0.0	86.9	201.4	285.6	312.1
137.5°	0.0	80.5	186.1	270.7	295.8
140°	0.0	73.0	171.2	253.0	279.5
142.5°	0.0	64.2	156.2	234.0	261.9
145°	0.0	56.7	140.9	214.0	244.2
147.5°	1.4	50.3	127.0	192.6	225.2
150°	1.4	45.2	113.4	171.2	203.8
152.5°	1.4	40.4	99.5	151.1	182.4
155°	1.4	35.3	86.9	130.8	162.3
157.5°	1.4	30.2	73.0	110.7	140.9
160°	1.4	26.5	60.5	93.1	120.9
162.5°	1.4	22.8	49.2	73.0	99.5
165°	1.4	19.0	39.1	54.0	76.8
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)