

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: P284627

Luminaire Tested: **4SNLED-LD5-64SL-SLW-UNV-L930-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: P284627
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-L930-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: 5046.0 lumens
Efficiency: N/A
Efficacy: 72.1 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

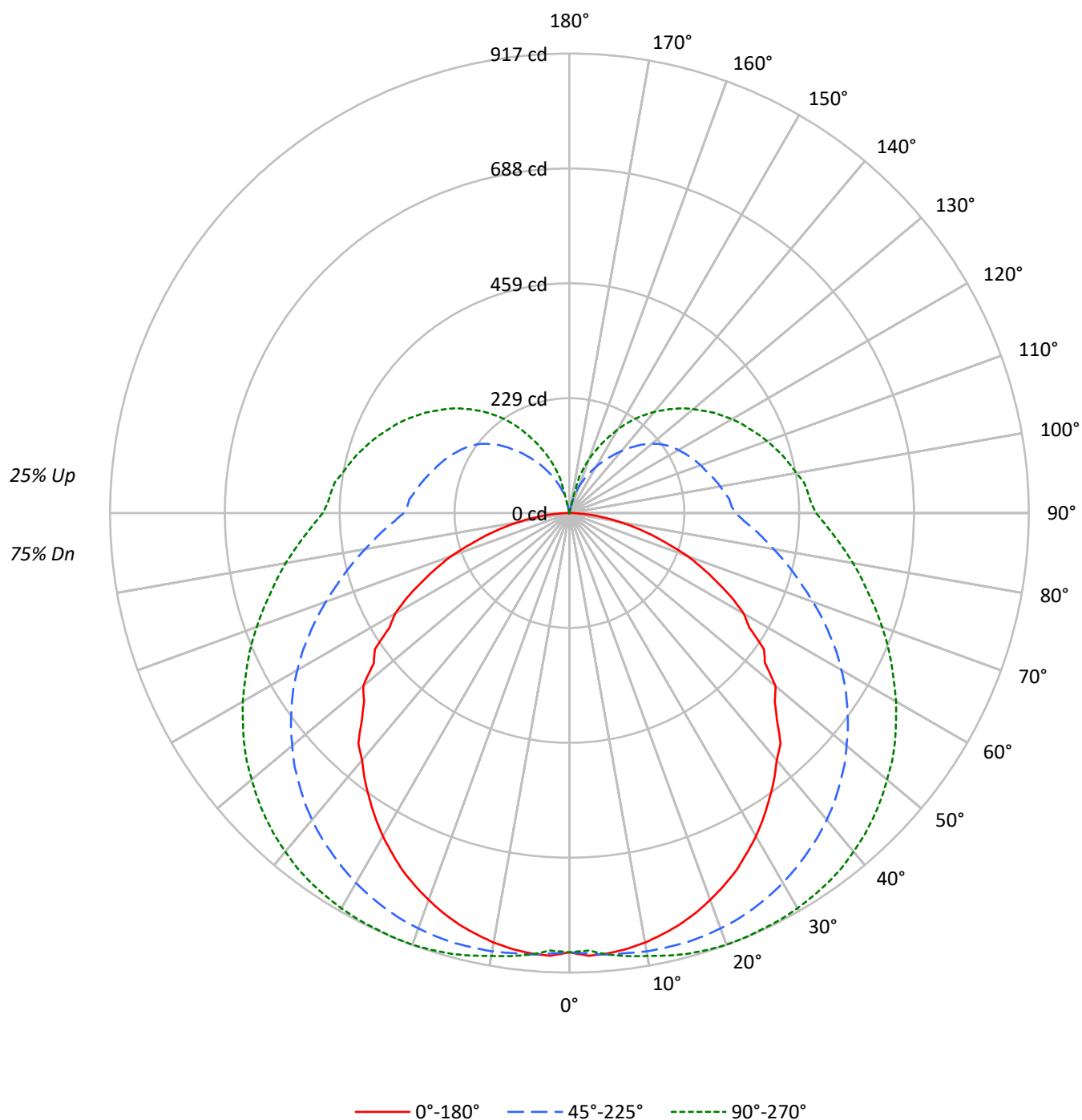
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7082	7082	7082
5°	7137	6998	6946
10°	7102	6937	6907
15°	7054	6899	6922
20°	6987	6868	6936
25°	6920	6843	6946
30°	6825	6821	6983
35°	6718	6798	7031
40°	6618	6793	7077
45°	6493	6776	7133
50°	6511	6762	7190
55°	6395	6763	7275
60°	6162	6766	7374
65°	5821	6774	7512
70°	5444	6826	7722
75°	4779	6982	8035
80°	4036	7318	8552
85°	2992	8001	9308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	1.7
10°-20°	249.6	4.9
20°-30°	396.7	7.9
30°-40°	509.2	10.1
40°-50°	575.0	11.4
50°-60°	586.7	11.6
60°-70°	543.5	10.8
70°-80°	460.2	9.1
80°-90°	367.3	7.3
90°-100°	311.9	6.2
100°-110°	277.9	5.5
110°-120°	236.7	4.7
120°-130°	188.0	3.7
130°-140°	133.4	2.6
140°-150°	79.6	1.6
150°-160°	37.1	0.7
160°-170°	8.8	0.2
170°-180°	0.0	0.0
0°-30°	730.6	14.5
0°-40°	1239.8	24.6
0°-60°	2401.5	47.6
0°-90°	3772.5	74.8
90°-120°	826.5	16.4
90°-150°	1227.5	24.3
90°-180°	1273.0	25.2
0°-180°	5046.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	882	875	884	884	884	84
15°	850	857	888	905	911	240
25°	787	813	870	901	915	362
35°	696	747	828	879	900	436
45°	586	665	763	830	858	455
55°	474	554	677	760	793	416
65°	325	433	573	671	709	322
75°	171	302	464	578	618	182
85°	44	194	370	490	531	48
90°	2	159	331	450	492	4
95°	0	149	320	437	478	0
105°	0	138	292	402	441	0
115°	0	128	266	362	397	0
125°	0	110	236	319	350	0
135°	0	82	190	269	294	0
145°	0	53	133	202	230	1
155°	1	33	82	123	153	1
165°	1	18	37	51	72	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°	876.4	876.4	876.4	876.4	876.4
2.5°	884.4	875.1	879.9	878.6	873.8
5°	882.2	875.1	884.4	884.4	884.4
7.5°	877.4	872.6	885.7	890.5	891.8
10°	870.3	870.3	888.2	895.3	897.5
12.5°	860.7	864.2	888.2	898.8	904.6
15°	850.2	857.2	888.2	904.6	910.6
17.5°	837.0	848.9	885.7	905.8	914.2
20°	821.7	839.6	882.2	905.8	916.7
22.5°	805.0	827.8	877.4	903.6	916.7
25°	787.4	813.4	870.3	901.0	915.4
27.5°	766.0	799.3	862.0	897.5	914.2
30°	744.6	782.6	852.4	892.7	910.6
32.5°	720.9	764.7	840.6	885.7	905.8
35°	695.9	747.1	827.8	878.6	900.1
37.5°	671.0	725.7	814.6	869.0	892.7
40°	643.8	704.3	799.3	857.2	882.2
42.5°	623.6	681.9	782.6	845.4	871.6
45°	585.9	665.2	763.4	830.0	858.5
47.5°	556.1	633.2	744.6	814.6	844.1
50°	537.2	607.0	722.2	796.7	827.8
52.5°	492.1	589.4	700.7	779.1	812.1
55°	474.2	553.9	677.1	759.9	793.2
57.5°	425.6	528.9	653.4	738.8	773.0
60°	401.9	494.4	627.1	717.4	752.9
62.5°	365.1	464.9	601.2	693.7	730.5
65°	324.8	432.9	572.7	671.0	709.1
67.5°	287.0	400.9	545.5	647.3	687.6
70°	250.2	367.6	517.1	623.6	663.9
72.5°	207.3	334.4	489.6	601.2	641.5
75°	170.9	302.4	463.6	577.5	617.9
77.5°	135.0	271.7	438.7	556.1	596.4
80°	102.1	241.9	413.7	533.7	575.0
82.5°	71.0	216.9	391.3	512.3	552.6
85°	43.8	194.5	369.9	489.6	531.1
87.5°	20.2	174.4	348.4	468.4	511.0
90°	2.2	159.0	330.8	450.5	492.1
92.5°	1.3	154.2	323.8	442.2	482.5
95°	0.0	149.4	320.3	437.4	477.7
97.5°	0.0	144.6	312.0	430.4	472.0
100°	0.0	142.4	305.9	419.8	460.1
102.5°	0.0	138.9	298.9	410.2	450.5
105°	0.0	137.6	291.8	401.9	441.2
107.5°	0.0	135.0	284.5	391.3	430.4
110°	0.0	132.8	278.7	381.7	419.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	130.5	272.6	372.4	408.9
115°	0.0	128.0	265.6	361.6	397.1
117.5°	0.0	124.5	258.5	351.0	386.5
120°	0.0	119.7	251.5	341.4	374.7
122.5°	0.0	114.9	244.1	329.6	361.6
125°	0.0	110.4	235.8	319.0	349.7
127.5°	0.0	103.0	226.5	307.2	335.6
130°	0.0	96.0	214.7	295.3	322.5
132.5°	1.3	89.0	202.9	282.2	309.4
135°	0.0	81.9	189.7	269.1	294.1
137.5°	0.0	75.8	175.3	255.0	278.7
140°	0.0	68.8	161.3	238.4	263.3
142.5°	0.0	60.5	147.2	220.5	246.7
145°	0.0	53.4	132.8	201.6	230.1
147.5°	1.3	47.4	119.7	181.4	212.1
150°	1.3	42.6	106.9	161.3	192.0
152.5°	1.3	38.1	93.8	142.4	171.8
155°	1.3	33.3	81.9	123.2	152.9
157.5°	1.3	28.5	68.8	104.3	132.8
160°	1.3	25.0	57.0	87.7	113.9
162.5°	1.3	21.4	46.4	68.8	93.8
165°	1.3	17.9	36.8	50.9	72.3
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)