

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: P284549

Luminaire Tested: **4SNLED-LD5-64SL-SLW-UNV-L840-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: P284549
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-L840-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: 6484.0 lumens
Efficiency: N/A
Efficacy: 92.6 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

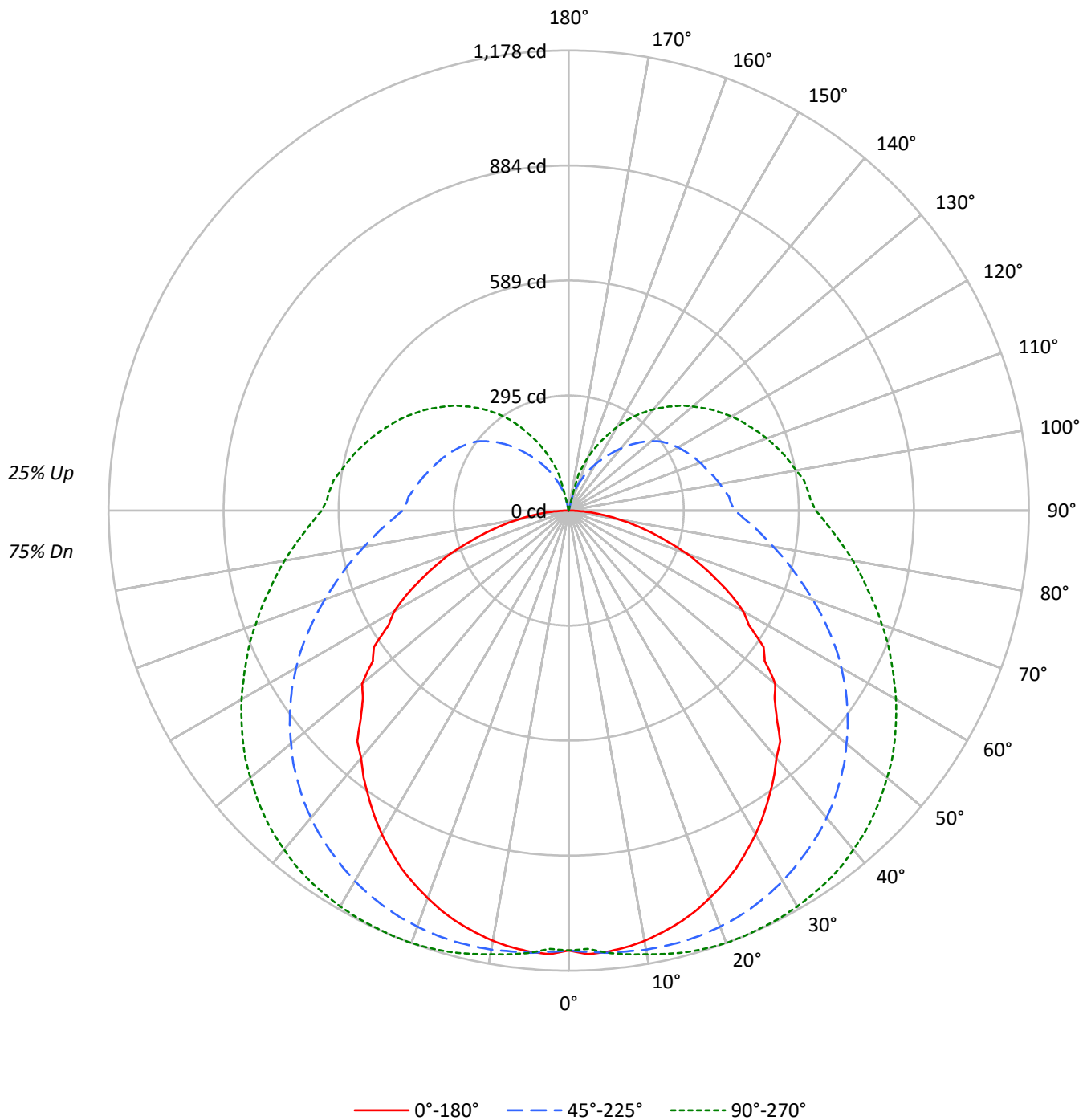
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9100	9100	9100
5°	9170	8992	8925
10°	9126	8914	8876
15°	9063	8866	8895
20°	8977	8824	8913
25°	8892	8792	8926
30°	8770	8765	8974
35°	8633	8735	9035
40°	8503	8729	9093
45°	8343	8708	9166
50°	8367	8689	9239
55°	8218	8689	9348
60°	7918	8695	9475
65°	7478	8705	9652
70°	6996	8770	9923
75°	6140	8973	10324
80°	5186	9404	10988
85°	3846	10281	11961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	1.7
10°-20°	320.8	4.9
20°-30°	509.8	7.9
30°-40°	654.3	10.1
40°-50°	738.9	11.4
50°-60°	753.9	11.6
60°-70°	698.5	10.8
70°-80°	591.3	9.1
80°-90°	472.0	7.3
90°-100°	400.8	6.2
100°-110°	357.1	5.5
110°-120°	304.1	4.7
120°-130°	241.6	3.7
130°-140°	171.4	2.6
140°-150°	102.3	1.6
150°-160°	47.7	0.7
160°-170°	11.3	0.2
170°-180°	0.0	0.0
0°-30°	938.8	14.5
0°-40°	1593.1	24.6
0°-60°	3085.8	47.6
0°-90°	4847.7	74.8
90°-120°	1062.1	16.4
90°-150°	1577.3	24.3
90°-180°	1636.0	25.2
0°-180°	6484.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1134	1124	1136	1136	1136	108
15°	1092	1102	1141	1162	1170	308
25°	1012	1045	1118	1158	1176	466
35°	894	960	1064	1129	1157	560
45°	753	855	981	1066	1103	585
55°	609	712	870	976	1019	535
65°	417	556	736	862	911	414
75°	220	388	596	742	794	234
85°	56	250	475	629	682	61
90°	3	204	425	579	632	5
95°	0	192	412	562	614	0
105°	0	177	375	516	567	0
115°	0	164	341	465	510	0
125°	0	142	303	410	449	0
135°	0	105	244	346	378	0
145°	0	69	171	259	296	1
155°	2	43	105	158	196	1
165°	2	23	47	65	93	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°	1126.1	1126.1	1126.1	1126.1	1126.1
2.5°	1136.4	1124.5	1130.7	1129.0	1122.9
5°	1133.5	1124.5	1136.4	1136.4	1136.4
7.5°	1127.4	1121.2	1138.1	1144.2	1145.9
10°	1118.3	1118.3	1141.4	1150.4	1153.3
12.5°	1106.0	1110.5	1141.4	1154.9	1162.3
15°	1092.4	1101.5	1141.4	1162.3	1170.1
17.5°	1075.6	1090.8	1138.1	1164.0	1174.7
20°	1055.8	1078.9	1133.5	1164.0	1178.0
22.5°	1034.5	1063.7	1127.4	1161.1	1178.0
25°	1011.8	1045.2	1118.3	1157.8	1176.3
27.5°	984.3	1027.1	1107.6	1153.3	1174.7
30°	956.8	1005.7	1095.3	1147.1	1170.1
32.5°	926.3	982.7	1080.1	1138.1	1164.0
35°	894.3	960.0	1063.7	1129.0	1156.6
37.5°	862.2	932.5	1046.8	1116.7	1147.1
40°	827.2	904.9	1027.1	1101.5	1133.5
42.5°	801.3	876.2	1005.7	1086.3	1120.0
45°	752.8	854.8	981.0	1066.5	1103.1
47.5°	714.6	813.7	956.8	1046.8	1084.6
50°	690.3	780.0	928.0	1023.8	1063.7
52.5°	632.4	757.3	900.4	1001.2	1043.5
55°	609.3	711.7	870.0	976.5	1019.2
57.5°	546.8	679.6	839.6	949.4	993.3
60°	516.4	635.2	805.9	921.8	967.4
62.5°	469.1	597.4	772.6	891.4	938.7
65°	417.3	556.3	736.0	862.2	911.1
67.5°	368.8	515.2	701.0	831.8	883.6
70°	321.5	472.4	664.4	801.3	853.1
72.5°	266.4	429.7	629.1	772.6	824.4
75°	219.6	388.5	595.8	742.1	793.9
77.5°	173.5	349.1	563.7	714.6	766.4
80°	131.2	310.8	531.6	685.8	738.8
82.5°	91.3	278.8	502.8	658.3	710.1
85°	56.3	250.0	475.3	629.1	682.5
87.5°	25.9	224.1	447.7	601.9	656.6
90°	2.9	204.3	425.1	578.9	632.4
92.5°	1.6	198.2	416.1	568.2	620.0
95°	0.0	192.0	411.6	562.0	613.9
97.5°	0.0	185.8	400.9	553.0	606.5
100°	0.0	183.0	393.1	539.4	591.2
102.5°	0.0	178.4	384.0	527.1	578.9
105°	0.0	176.8	375.0	516.4	567.0
107.5°	0.0	173.5	365.5	502.8	553.0
110°	0.0	170.6	358.1	490.5	539.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	167.8	350.3	478.6	525.5
115°	0.0	164.5	341.3	464.6	510.2
117.5°	0.0	159.9	332.2	451.0	496.7
120°	0.0	153.8	323.2	438.7	481.5
122.5°	0.0	147.6	313.7	423.5	464.6
125°	0.0	141.8	303.0	409.9	449.4
127.5°	0.0	132.4	291.1	394.7	431.3
130°	0.0	123.3	275.9	379.5	414.4
132.5°	1.6	114.3	260.7	362.6	397.6
135°	0.0	105.3	243.8	345.8	377.8
137.5°	0.0	97.4	225.3	327.7	358.1
140°	0.0	88.4	207.2	306.3	338.4
142.5°	0.0	77.7	189.1	283.3	317.0
145°	0.0	68.7	170.6	259.0	295.6
147.5°	1.6	60.9	153.8	233.1	272.6
150°	1.6	54.7	137.3	207.2	246.7
152.5°	1.6	48.9	120.5	183.0	220.8
155°	1.6	42.8	105.3	158.3	196.5
157.5°	1.6	36.6	88.4	134.0	170.6
160°	1.6	32.1	73.2	112.7	146.4
162.5°	1.6	27.5	59.6	88.4	120.5
165°	1.6	23.0	47.3	65.4	92.9
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)