

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: P284520

Luminaire Tested: **8SNLED-LD5-64SL-SLW-UNV-L835-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: P284520
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: 8SNLED-LD5-64SL-SLW-UNV-L835-CD1-U
Description: 8FT 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: 6422.0 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

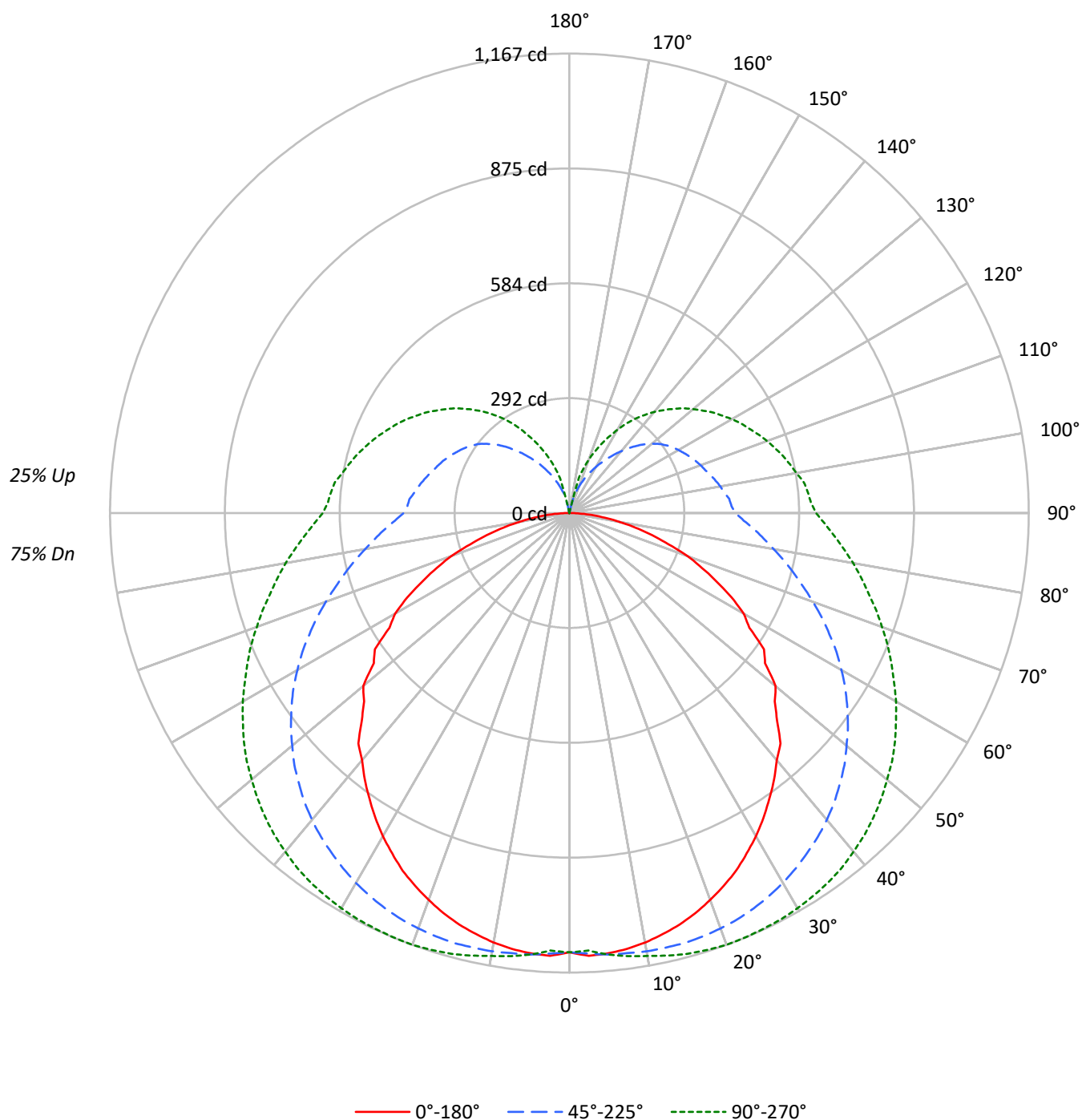
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	4507	4507	4507
5°	4547	4458	4420
10°	4532	4422	4396
15°	4507	4402	4405
20°	4471	4386	4414
25°	4436	4374	4420
30°	4382	4365	4444
35°	4321	4354	4474
40°	4265	4355	4503
45°	4195	4349	4539
50°	4219	4346	4575
55°	4159	4352	4629
60°	4025	4362	4692
65°	3823	4375	4780
70°	3607	4418	4914
75°	3208	4534	5113
80°	2777	4771	5442
85°	2195	5245	5924



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	1.7
10°-20°	317.7	4.9
20°-30°	504.9	7.9
30°-40°	648.0	10.1
40°-50°	731.8	11.4
50°-60°	746.7	11.6
60°-70°	691.8	10.8
70°-80°	585.7	9.1
80°-90°	467.5	7.3
90°-100°	397.0	6.2
100°-110°	353.7	5.5
110°-120°	301.2	4.7
120°-130°	239.3	3.7
130°-140°	169.8	2.6
140°-150°	101.3	1.6
150°-160°	47.3	0.7
160°-170°	11.2	0.2
170°-180°	0.0	0.0
0°-30°	929.8	14.5
0°-40°	1577.8	24.6
0°-60°	3056.3	47.6
0°-90°	4801.3	74.8
90°-120°	1051.9	16.4
90°-150°	1562.3	24.3
90°-180°	1621.0	25.2
0°-180°	6422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1123	1114	1126	1126	1126	107
15°	1082	1091	1130	1151	1159	305
25°	1002	1035	1108	1147	1165	461
35°	886	951	1054	1118	1146	554
45°	746	847	972	1056	1093	579
55°	604	705	862	967	1010	530
65°	413	551	729	854	902	410
75°	218	385	590	735	786	231
85°	56	248	471	623	676	61
90°	3	202	421	573	626	5
95°	0	190	408	557	608	0
105°	0	175	371	512	562	0
115°	0	163	338	460	505	0
125°	0	140	300	406	445	0
135°	0	104	242	342	374	0
145°	0	68	169	256	293	1
155°	2	42	104	157	195	1
165°	2	23	47	65	92	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°	1115.4	1115.4	1115.4	1115.4	1115.4
2.5°	1125.6	1113.8	1119.9	1118.2	1112.1
5°	1122.7	1113.8	1125.6	1125.6	1125.6
7.5°	1116.6	1110.5	1127.2	1133.3	1134.9
10°	1107.6	1107.6	1130.4	1139.4	1142.3
12.5°	1095.4	1099.9	1130.4	1143.9	1151.2
15°	1082.0	1090.9	1130.4	1151.2	1159.0
17.5°	1065.3	1080.4	1127.2	1152.8	1163.4
20°	1045.7	1068.5	1122.7	1152.8	1166.7
22.5°	1024.6	1053.5	1116.6	1150.0	1166.7
25°	1002.2	1035.2	1107.6	1146.7	1165.1
27.5°	974.9	1017.2	1097.1	1142.3	1163.4
30°	947.6	996.1	1084.8	1136.1	1159.0
32.5°	917.5	973.3	1069.8	1127.2	1152.8
35°	885.7	950.9	1053.5	1118.2	1145.5
37.5°	853.9	923.6	1036.8	1106.0	1136.1
40°	819.3	896.3	1017.2	1090.9	1122.7
42.5°	793.7	867.8	996.1	1075.9	1109.3
45°	745.6	846.6	971.6	1056.3	1092.6
47.5°	707.8	805.9	947.6	1036.8	1074.3
50°	683.7	772.5	919.1	1014.0	1053.5
52.5°	626.3	750.1	891.8	991.6	1033.5
55°	603.5	704.9	861.7	967.2	1009.5
57.5°	541.6	673.1	831.5	940.3	983.8
60°	511.5	629.2	798.2	913.0	958.2
62.5°	464.6	591.7	765.2	882.9	929.7
65°	413.3	551.0	728.9	853.9	902.4
67.5°	365.3	510.2	694.3	823.8	875.1
70°	318.4	467.9	658.1	793.7	845.0
72.5°	263.9	425.5	623.0	765.2	816.5
75°	217.5	384.8	590.1	735.0	786.3
77.5°	171.8	345.7	558.3	707.8	759.1
80°	129.9	307.9	526.5	679.2	731.8
82.5°	90.4	276.1	498.0	652.0	703.3
85°	55.8	247.6	470.7	623.0	676.0
87.5°	25.7	221.9	443.5	596.2	650.3
90°	2.9	202.4	421.1	573.4	626.3
92.5°	1.6	196.3	412.1	562.8	614.1
95°	0.0	190.2	407.6	556.7	608.0
97.5°	0.0	184.1	397.0	547.7	600.7
100°	0.0	181.2	389.3	534.3	585.6
102.5°	0.0	176.7	380.3	522.1	573.4
105°	0.0	175.1	371.4	511.5	561.6
107.5°	0.0	171.8	362.0	498.0	547.7
110°	0.0	169.0	354.7	485.8	534.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	166.1	347.0	474.0	520.4
115°	0.0	162.9	338.0	460.2	505.4
117.5°	0.0	158.4	329.0	446.7	491.9
120°	0.0	152.3	320.1	434.5	476.9
122.5°	0.0	146.2	310.7	419.4	460.2
125°	0.0	140.5	300.1	406.0	445.1
127.5°	0.0	131.1	288.3	390.9	427.2
130°	0.0	122.2	273.2	375.9	410.5
132.5°	1.6	113.2	258.2	359.2	393.8
135°	0.0	104.2	241.5	342.5	374.2
137.5°	0.0	96.5	223.2	324.6	354.7
140°	0.0	87.6	205.2	303.4	335.1
142.5°	0.0	77.0	187.3	280.6	314.0
145°	0.0	68.0	169.0	256.5	292.8
147.5°	1.6	60.3	152.3	230.9	270.0
150°	1.6	54.2	136.0	205.2	244.3
152.5°	1.6	48.5	119.3	181.2	218.7
155°	1.6	42.4	104.2	156.8	194.7
157.5°	1.6	36.2	87.6	132.8	169.0
160°	1.6	31.8	72.5	111.6	145.0
162.5°	1.6	27.3	59.0	87.6	119.3
165°	1.6	22.8	46.8	64.7	92.0
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)