

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: P284510

Luminaire Tested: **4SNLED-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: P284510
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-L835-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: 6376.0 lumens
Efficiency: N/A
Efficacy: 91.1 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

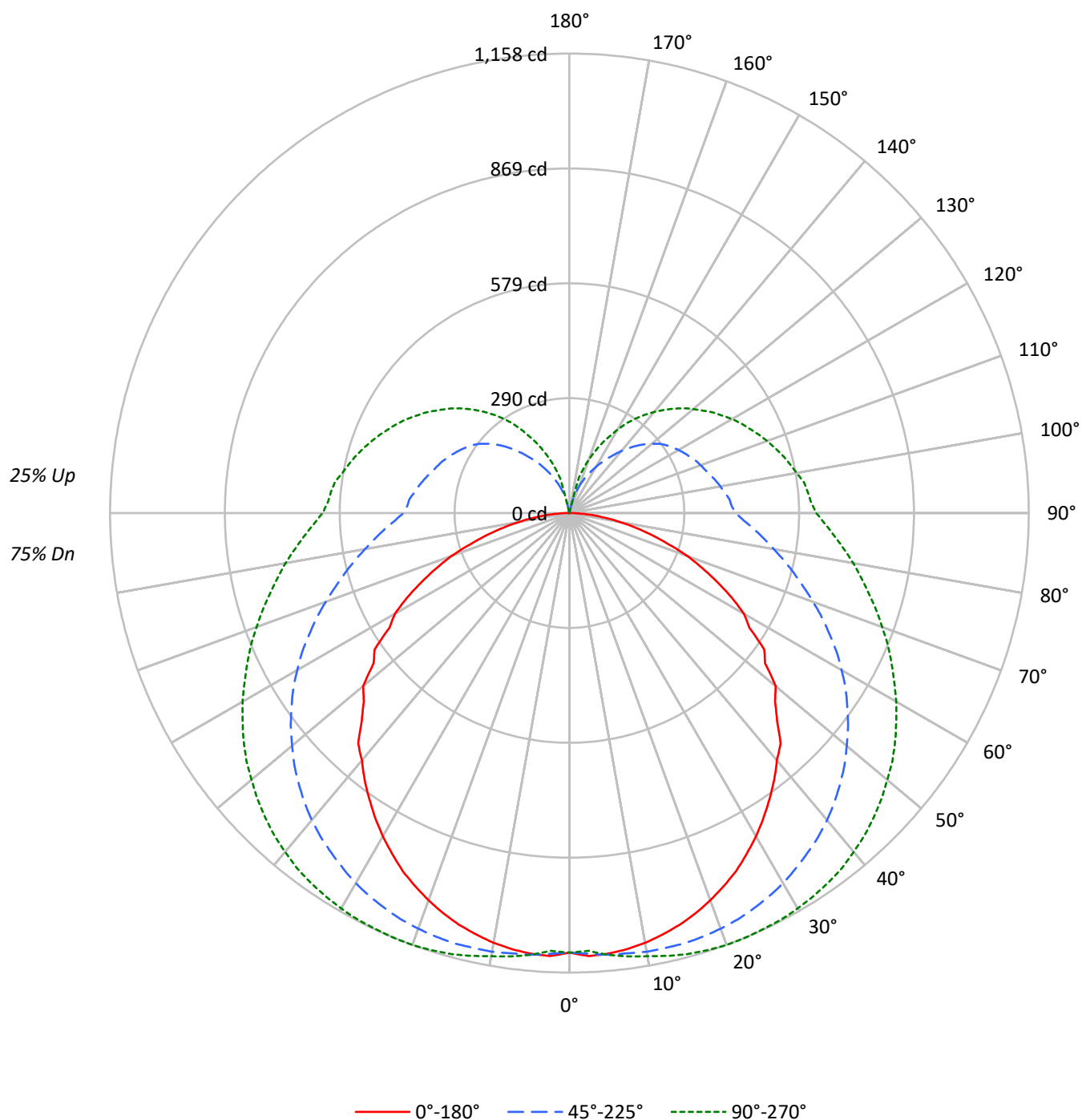
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8949	8949	8949
5°	9018	8843	8777
10°	8974	8766	8728
15°	8912	8718	8747
20°	8829	8678	8764
25°	8744	8646	8777
30°	8623	8620	8825
35°	8490	8589	8884
40°	8362	8584	8942
45°	8204	8563	9013
50°	8227	8544	9085
55°	8081	8544	9193
60°	7786	8549	9317
65°	7355	8560	9491
70°	6880	8625	9758
75°	6037	8823	10153
80°	5099	9248	10806
85°	3785	10110	11761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	1.7
10°-20°	315.4	4.9
20°-30°	501.3	7.9
30°-40°	643.4	10.1
40°-50°	726.6	11.4
50°-60°	741.4	11.6
60°-70°	686.8	10.8
70°-80°	581.5	9.1
80°-90°	464.2	7.3
90°-100°	394.1	6.2
100°-110°	351.1	5.5
110°-120°	299.1	4.7
120°-130°	237.5	3.7
130°-140°	168.5	2.6
140°-150°	100.6	1.6
150°-160°	46.9	0.7
160°-170°	11.1	0.2
170°-180°	0.0	0.0
0°-30°	923.1	14.5
0°-40°	1566.5	24.6
0°-60°	3034.4	47.6
0°-90°	4766.9	74.8
90°-120°	1044.4	16.4
90°-150°	1551.0	24.3
90°-180°	1609.0	25.2
0°-180°	6376.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1107	1107	1107	1107	1107	
5°	1115	1106	1118	1118	1118	106
15°	1074	1083	1122	1143	1151	303
25°	995	1028	1100	1138	1157	458
35°	879	944	1046	1110	1137	551
45°	740	840	965	1049	1085	575
55°	599	700	856	960	1002	526
65°	410	547	724	848	896	407
75°	216	382	586	730	781	230
85°	55	246	467	619	671	60
90°	3	201	418	569	622	4
95°	0	189	405	553	604	0
105°	0	174	369	508	558	0
115°	0	162	336	457	502	0
125°	0	140	298	403	442	0
135°	0	104	240	340	372	0
145°	0	68	168	255	291	1
155°	2	42	104	156	193	1
165°	2	23	46	64	91	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°	1107.4	1107.4	1107.4	1107.4	1107.4
2.5°	1117.5	1105.8	1111.8	1110.2	1104.2
5°	1114.7	1105.8	1117.5	1117.5	1117.5
7.5°	1108.6	1102.5	1119.1	1125.2	1126.8
10°	1099.7	1099.7	1122.4	1131.2	1134.1
12.5°	1087.6	1092.0	1122.4	1135.7	1143.0
15°	1074.2	1083.1	1122.4	1143.0	1150.7
17.5°	1057.7	1072.6	1119.1	1144.6	1155.1
20°	1038.3	1060.9	1114.7	1144.6	1158.3
22.5°	1017.2	1045.9	1108.6	1141.8	1158.3
25°	995.0	1027.7	1099.7	1138.5	1156.7
27.5°	967.9	1010.0	1089.2	1134.1	1155.1
30°	940.8	988.9	1077.1	1128.0	1150.7
32.5°	910.9	966.3	1062.1	1119.1	1144.6
35°	879.4	944.1	1045.9	1110.2	1137.3
37.5°	847.8	917.0	1029.4	1098.1	1128.0
40°	813.5	889.9	1010.0	1083.1	1114.7
42.5°	788.0	861.6	988.9	1068.2	1101.3
45°	740.3	840.5	964.7	1048.8	1084.7
47.5°	702.7	800.1	940.8	1029.4	1066.6
50°	678.8	767.0	912.5	1006.7	1045.9
52.5°	621.8	744.7	885.4	984.5	1026.1
55°	599.2	699.9	855.5	960.2	1002.3
57.5°	537.7	668.3	825.6	933.5	976.8
60°	507.8	624.7	792.4	906.5	951.3
62.5°	461.3	587.5	759.7	876.5	923.0
65°	410.4	547.0	723.7	847.8	895.9
67.5°	362.7	506.6	689.3	817.9	868.9
70°	316.2	464.5	653.4	788.0	838.9
72.5°	262.0	422.5	618.6	759.7	810.6
75°	215.9	382.1	585.8	729.8	780.7
77.5°	170.6	343.3	554.3	702.7	753.6
80°	129.0	305.7	522.8	674.4	726.5
82.5°	89.8	274.1	494.5	647.3	698.2
85°	55.4	245.8	467.4	618.6	671.1
87.5°	25.5	220.3	440.3	591.9	645.7
90°	2.8	200.9	418.1	569.3	621.8
92.5°	1.6	194.9	409.2	558.7	609.7
95°	0.0	188.8	404.7	552.7	603.6
97.5°	0.0	182.7	394.2	543.8	596.3
100°	0.0	179.9	386.5	530.4	581.4
102.5°	0.0	175.5	377.6	518.3	569.3
105°	0.0	173.9	368.7	507.8	557.5
107.5°	0.0	170.6	359.4	494.5	543.8
110°	0.0	167.8	352.1	482.3	530.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	165.0	344.5	470.6	516.7
115°	0.0	161.7	335.6	456.9	501.7
117.5°	0.0	157.3	326.7	443.5	488.4
120°	0.0	151.2	317.8	431.4	473.4
122.5°	0.0	145.1	308.5	416.4	456.9
125°	0.0	139.5	298.0	403.1	441.9
127.5°	0.0	130.2	286.2	388.1	424.1
130°	0.0	121.3	271.3	373.2	407.5
132.5°	1.6	112.4	256.3	356.6	391.0
135°	0.0	103.5	239.8	340.0	371.6
137.5°	0.0	95.8	221.6	322.2	352.1
140°	0.0	86.9	203.8	301.2	332.7
142.5°	0.0	76.4	186.0	278.6	311.7
145°	0.0	67.5	167.8	254.7	290.7
147.5°	1.6	59.8	151.2	229.2	268.1
150°	1.6	53.8	135.0	203.8	242.6
152.5°	1.6	48.1	118.5	179.9	217.1
155°	1.6	42.0	103.5	155.7	193.3
157.5°	1.6	36.0	86.9	131.8	167.8
160°	1.6	31.5	72.0	110.8	143.9
162.5°	1.6	27.1	58.6	86.9	118.5
165°	1.6	22.6	46.5	64.3	91.4
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)