

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: P#

Luminaire Tested: **4SNLED-LD5-64HL-SLC-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-64HL-SLC-UNV-L835-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

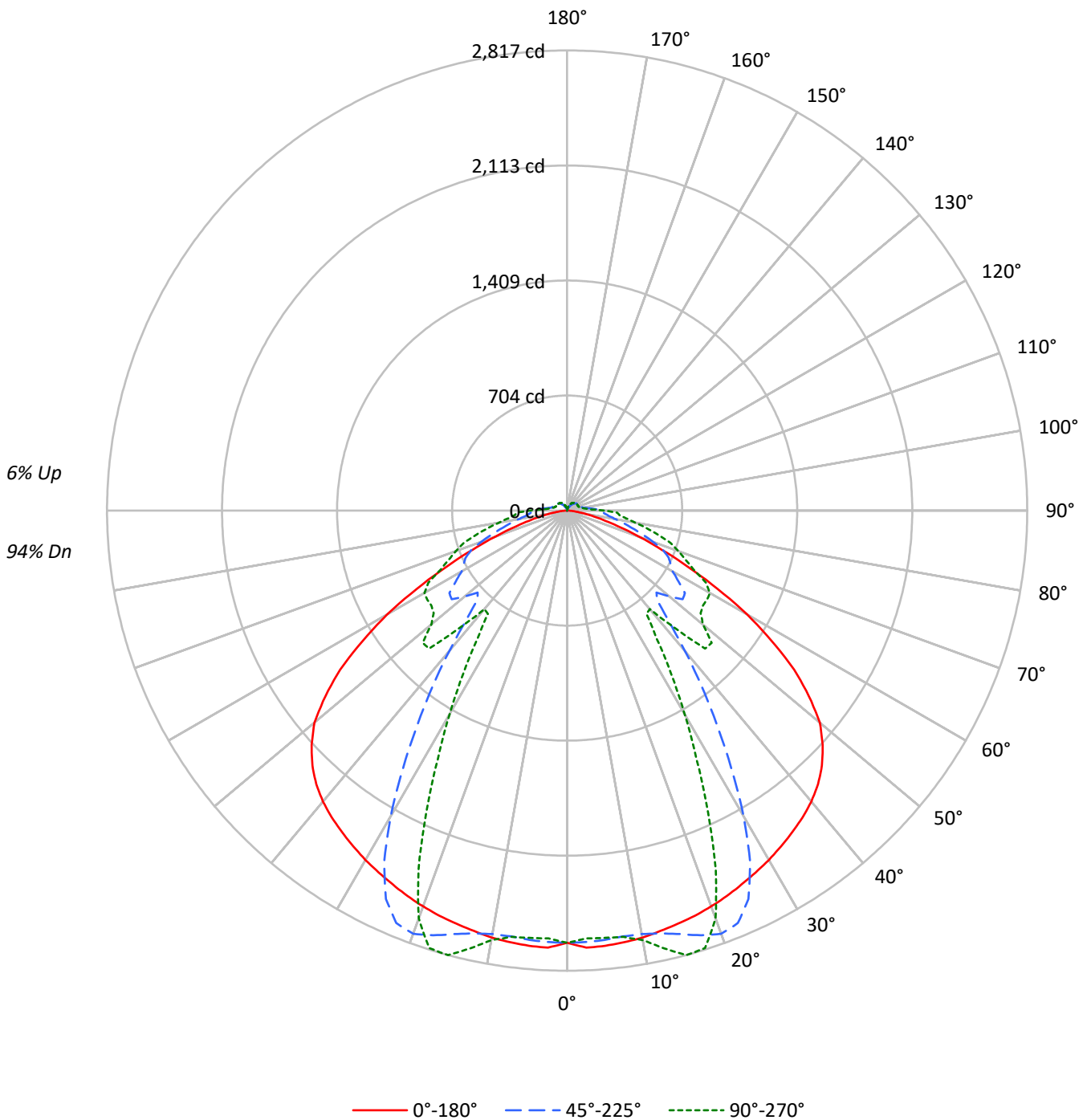
Lumens per Lamp: N/A
Luminaire Lumens: 6795.0 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 48
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21376	21376	21376
5°	21636	20876	20619
10°	21663	20558	20548
15°	21723	20848	21417
20°	21925	21468	20102
25°	22198	20632	15478
30°	22636	17280	11010
35°	23196	13087	7455
40°	23906	9514	6313
45°	24448	6901	9925
50°	24482	7642	9418
55°	22883	8795	9301
60°	19498	8048	9886
65°	14668	8116	9043
70°	10294	7388	8418
75°	6744	6190	7553
80°	4305	5304	6287
85°	2323	5040	5643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.7	3.7
10°-20°	760.0	11.2
20°-30°	1104.0	16.2
30°-40°	1054.8	15.5
40°-50°	964.9	14.2
50°-60°	890.9	13.1
60°-70°	707.7	10.4
70°-80°	436.8	6.4
80°-90°	237.8	3.5
90°-100°	120.2	1.8
100°-110°	75.5	1.1
110°-120°	64.0	0.9
120°-130°	52.3	0.8
130°-140°	37.5	0.6
140°-150°	23.1	0.3
150°-160°	11.0	0.2
160°-170°	2.8	0.0
170°-180°	0.0	0.0
0°-30°	2115.7	31.1
0°-40°	3170.5	46.7
0°-60°	5026.3	74.0
0°-90°	6408.6	94.3
90°-120°	259.8	3.8
90°-150°	372.6	5.5
90°-180°	386.0	5.7
0°-180°	6795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2645	2645	2645	2645	2645	
5°	2674	2634	2638	2624	2625	254
15°	2618	2583	2684	2783	2817	741
25°	2526	2575	2624	2221	2040	1167
35°	2403	2364	1594	1097	954	1507
45°	2206	1539	778	992	1194	1695
55°	1697	789	881	947	1014	1494
65°	818	512	686	834	854	828
75°	241	273	411	544	581	273
85°	34	116	233	317	322	43
90°	1	87	208	247	228	2
95°	0	81	144	128	121	0
105°	0	73	89	81	80	0
115°	0	60	86	76	73	1
125°	1	48	76	74	70	1
135°	1	34	61	67	64	1
145°	1	21	42	54	57	1
155°	2	13	26	34	41	1
165°	2	7	13	16	22	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°	2645.2	2645.2	2645.2	2645.2	2645.2
2.5°	2678.0	2639.4	2644.1	2635.9	2621.8
5°	2674.5	2633.5	2638.2	2624.2	2625.3
7.5°	2665.1	2623.0	2628.8	2626.5	2632.3
10°	2654.6	2610.1	2632.3	2652.3	2669.8
12.5°	2635.9	2596.0	2649.9	2708.5	2744.8
15°	2618.3	2583.2	2683.9	2783.4	2817.4
17.5°	2600.7	2578.5	2726.0	2812.7	2808.0
20°	2578.5	2576.1	2757.6	2728.4	2656.9
22.5°	2553.9	2577.3	2733.1	2518.8	2378.2
25°	2525.8	2575.0	2624.2	2221.3	2039.8
27.5°	2497.7	2564.4	2426.3	1895.8	1716.6
30°	2469.6	2536.3	2159.3	1598.4	1435.6
32.5°	2436.8	2475.4	1868.9	1334.9	1185.0
35°	2402.8	2364.2	1593.7	1097.2	954.3
37.5°	2367.7	2203.8	1346.6	888.8	797.4
40°	2325.6	2002.4	1119.5	762.3	786.9
42.5°	2272.9	1775.2	919.2	799.8	970.7
45°	2206.1	1538.7	777.5	991.8	1194.4
47.5°	2121.8	1311.5	742.4	1135.8	1199.1
50°	2019.9	1103.1	816.2	1089.0	1084.3
52.5°	1865.4	929.8	891.1	993.0	1030.5
55°	1696.7	789.2	880.6	947.3	1014.1
57.5°	1483.6	694.4	808.0	937.9	1015.2
60°	1271.7	631.2	745.9	936.8	1009.4
62.5°	1037.5	573.8	714.3	914.5	957.9
65°	818.5	511.7	686.2	833.7	853.6
67.5°	627.6	448.5	637.0	743.6	783.4
70°	473.1	386.4	559.7	674.5	723.7
72.5°	340.8	327.9	480.1	613.6	665.1
75°	241.2	272.8	411.0	544.5	580.8
77.5°	166.3	222.5	352.5	468.4	497.7
80°	108.9	178.0	299.8	402.8	422.7
82.5°	65.6	142.9	260.0	352.5	363.0
85°	34.0	115.9	233.0	317.3	322.0
87.5°	10.5	97.2	217.8	300.9	306.8
90°	1.2	86.7	208.4	247.1	228.3
92.5°	0.0	82.0	180.3	168.6	151.1
95°	0.0	80.8	144.0	127.6	120.6
97.5°	0.0	78.5	118.3	106.6	103.0
100°	0.0	76.1	101.9	93.7	92.5
102.5°	0.0	74.9	92.5	85.5	84.3
105°	0.0	72.6	89.0	80.8	79.6
107.5°	0.0	69.1	86.7	78.5	76.1
110°	0.0	65.6	86.7	77.3	73.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	62.1	86.7	76.1	72.6
115°	0.0	59.7	85.5	76.1	72.6
117.5°	1.2	57.4	84.3	76.1	72.6
120°	0.0	55.0	82.0	76.1	71.4
122.5°	1.2	51.5	79.6	74.9	71.4
125°	1.2	48.0	76.1	73.8	70.3
127.5°	1.2	44.5	72.6	71.4	67.9
130°	1.2	41.0	69.1	70.3	66.7
132.5°	1.2	37.5	64.4	67.9	65.6
135°	1.2	34.0	60.9	66.7	64.4
137.5°	1.2	30.4	56.2	63.2	63.2
140°	1.2	26.9	51.5	60.9	62.1
142.5°	1.2	24.6	46.8	58.5	59.7
145°	1.2	21.1	42.2	53.9	57.4
147.5°	1.2	18.7	37.5	49.2	53.9
150°	1.2	16.4	32.8	44.5	49.2
152.5°	1.2	14.1	29.3	38.6	45.7
155°	2.3	12.9	25.8	34.0	41.0
157.5°	2.3	10.5	21.1	29.3	35.1
160°	2.3	9.4	18.7	24.6	31.6
162.5°	2.3	8.2	15.2	21.1	26.9
165°	2.3	7.0	12.9	16.4	22.2
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)