

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-LD5-63HL-SLN-UNV-L940-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-63HL-SLN-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

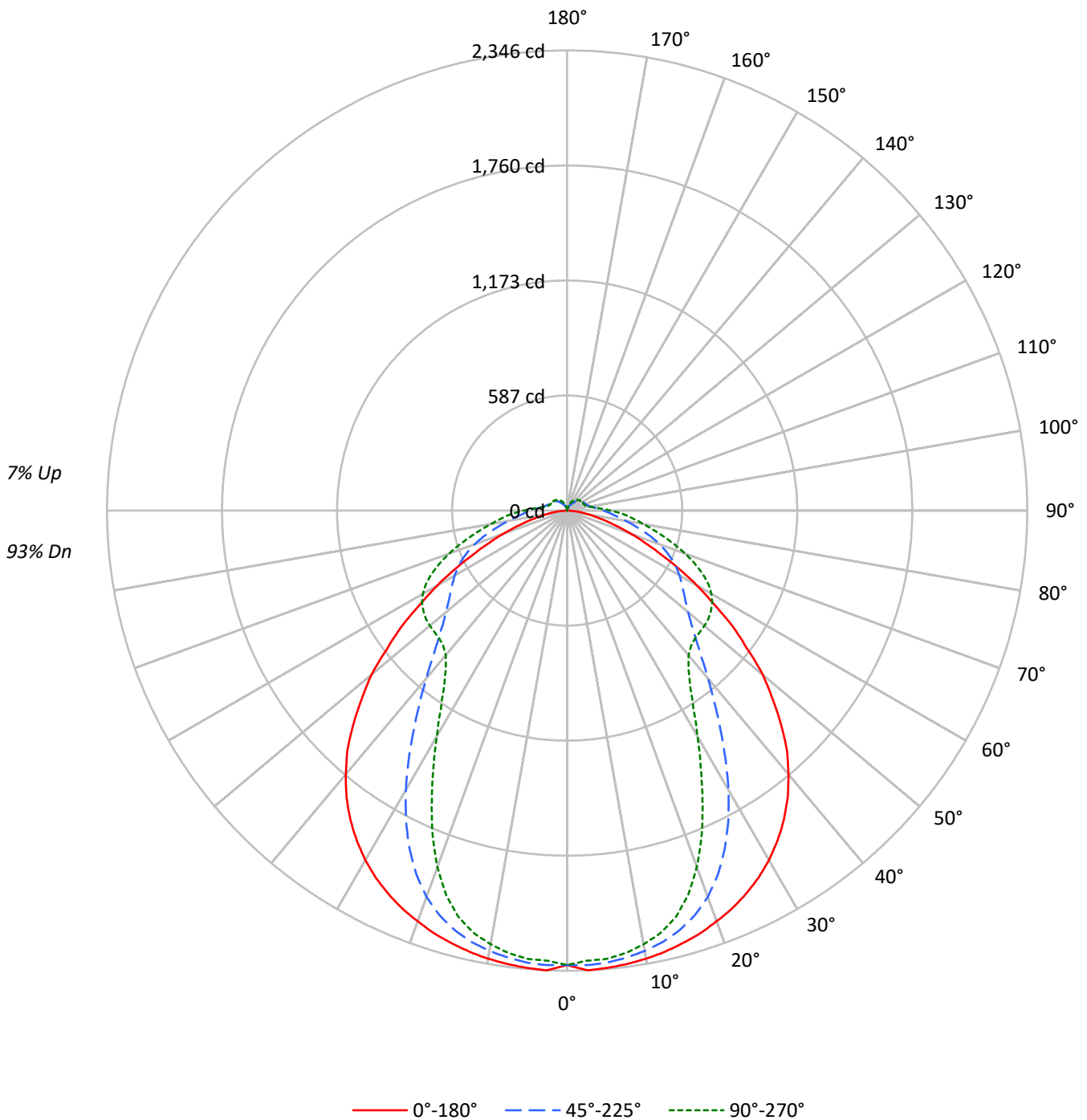
Lumens per Lamp: N/A
Luminaire Lumens: 5826.0 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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				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	50	30	10	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	79	79	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	66	66	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	57	57	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	49	49	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	43	43	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	39	39	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	35	35	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	31	31	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	28	28	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18721	18721	18721
5°	18937	18307	18021
10°	18930	17802	17280
15°	18936	17205	16294
20°	18945	16319	14633
25°	18953	14952	12391
30°	18862	13157	10192
35°	18593	11194	8541
40°	18050	9480	7721
45°	17093	8240	7663
50°	15791	7532	7932
55°	13905	7240	8209
60°	11732	7137	8322
65°	9437	6979	8063
70°	7581	6618	7436
75°	5715	5990	6598
80°	4218	5380	5871
85°	2821	5075	5400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.2	3.8
10°-20°	619.5	10.6
20°-30°	866.0	14.9
30°-40°	898.3	15.4
40°-50°	829.8	14.2
50°-60°	740.9	12.7
60°-70°	600.4	10.3
70°-80°	399.4	6.9
80°-90°	228.7	3.9
90°-100°	126.5	2.2
100°-110°	85.7	1.5
110°-120°	71.3	1.2
120°-130°	58.0	1.0
130°-140°	41.8	0.7
140°-150°	25.2	0.4
150°-160°	12.1	0.2
160°-170°	3.1	0.1
170°-180°	0.0	0.0
0°-30°	1704.7	29.3
0°-40°	2602.9	44.7
0°-60°	4173.7	71.6
0°-90°	5402.2	92.7
90°-120°	283.5	4.9
90°-150°	408.6	7.0
90°-180°	424.0	7.3
0°-180°	5826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2317	2317	2317	2317	2317	
5°	2341	2302	2314	2298	2294	223
15°	2282	2234	2215	2165	2144	645
25°	2157	2061	1902	1702	1633	994
35°	1926	1715	1363	1145	1093	1202
45°	1542	1222	928	895	922	1186
55°	1031	779	725	843	895	917
65°	527	471	590	723	761	532
75°	204	256	398	487	507	224
85°	41	119	235	300	308	47
90°	2	84	185	224	222	3
95°	2	70	147	157	152	1
105°	1	61	106	103	98	1
115°	1	55	94	93	90	1
125°	1	47	83	87	85	1
135°	2	35	65	76	76	1
145°	2	22	45	59	63	1
155°	2	14	28	37	45	1
165°	2	8	14	18	24	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°	2316.7	2316.7	2316.7	2316.7	2316.7
2.5°	2345.8	2307.6	2319.7	2309.6	2296.5
5°	2340.8	2301.5	2313.6	2297.5	2294.5
7.5°	2331.8	2292.5	2299.5	2280.4	2275.4
10°	2319.7	2278.4	2279.4	2252.2	2245.2
12.5°	2303.6	2258.3	2252.2	2215.0	2204.9
15°	2282.4	2234.1	2215.0	2164.6	2143.5
17.5°	2259.3	2202.9	2163.6	2086.1	2052.9
20°	2228.1	2164.6	2096.2	1978.4	1934.1
22.5°	2196.8	2118.3	2008.6	1851.5	1792.1
25°	2156.6	2060.9	1901.8	1702.5	1633.0
27.5°	2111.3	1993.5	1779.0	1549.5	1475.0
30°	2057.9	1911.9	1644.1	1399.5	1329.0
32.5°	1995.5	1820.3	1502.1	1264.5	1199.1
35°	1926.0	1714.6	1363.2	1144.7	1093.4
37.5°	1846.5	1598.8	1234.3	1048.1	1014.9
40°	1755.9	1473.0	1115.5	973.6	962.5
42.5°	1658.2	1350.1	1013.8	925.3	935.3
45°	1542.4	1222.3	928.3	895.0	922.2
47.5°	1420.6	1097.4	858.8	877.9	917.2
50°	1302.8	981.6	804.4	866.9	913.2
52.5°	1156.8	877.9	761.1	856.8	907.1
55°	1031.0	779.3	724.9	842.7	895.0
57.5°	886.0	690.7	692.7	824.6	876.9
60°	765.2	610.1	661.5	799.4	849.7
62.5°	642.3	537.6	627.2	766.2	811.5
65°	526.6	471.2	590.0	722.9	761.1
67.5°	429.9	410.8	547.7	670.5	702.7
70°	348.4	355.4	501.4	612.1	639.3
72.5°	267.8	304.1	451.0	549.7	572.9
75°	204.4	255.7	397.7	487.3	507.4
77.5°	151.0	213.4	349.4	430.9	448.0
80°	106.7	176.2	304.1	381.6	394.7
82.5°	71.5	145.0	266.8	337.3	349.4
85°	41.3	118.8	234.6	300.0	308.1
87.5°	17.1	98.7	208.4	261.8	265.8
90°	2.0	83.6	185.3	223.5	221.5
92.5°	2.0	75.5	165.1	187.3	182.2
95°	2.0	70.5	147.0	157.1	152.0
97.5°	2.0	67.5	130.9	134.9	129.9
100°	1.0	65.4	119.8	119.8	114.8
102.5°	1.0	63.4	111.8	108.7	104.7
105°	1.0	61.4	105.7	102.7	97.7
107.5°	1.0	60.4	101.7	98.7	93.6
110°	1.0	58.4	98.7	95.6	91.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	57.4	96.7	94.6	89.6
115°	1.0	55.4	93.6	92.6	89.6
117.5°	1.0	53.4	91.6	91.6	88.6
120°	1.0	51.3	88.6	90.6	87.6
122.5°	1.0	49.3	85.6	88.6	85.6
125°	1.0	47.3	82.6	86.6	84.6
127.5°	2.0	44.3	78.5	84.6	82.6
130°	1.0	41.3	74.5	82.6	81.6
132.5°	2.0	38.3	70.5	79.5	79.5
135°	2.0	35.2	65.4	76.5	76.5
137.5°	2.0	31.2	60.4	72.5	73.5
140°	2.0	28.2	55.4	68.5	70.5
142.5°	2.0	25.2	50.3	64.4	67.5
145°	2.0	22.1	45.3	59.4	63.4
147.5°	2.0	20.1	40.3	53.4	59.4
150°	2.0	17.1	36.2	48.3	54.4
152.5°	2.0	15.1	32.2	43.3	50.3
155°	2.0	14.1	28.2	37.3	45.3
157.5°	2.0	12.1	24.2	32.2	40.3
160°	2.0	10.1	20.1	28.2	34.2
162.5°	2.0	9.1	17.1	23.2	30.2
165°	2.0	8.1	14.1	18.1	24.2
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)