

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-L950-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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

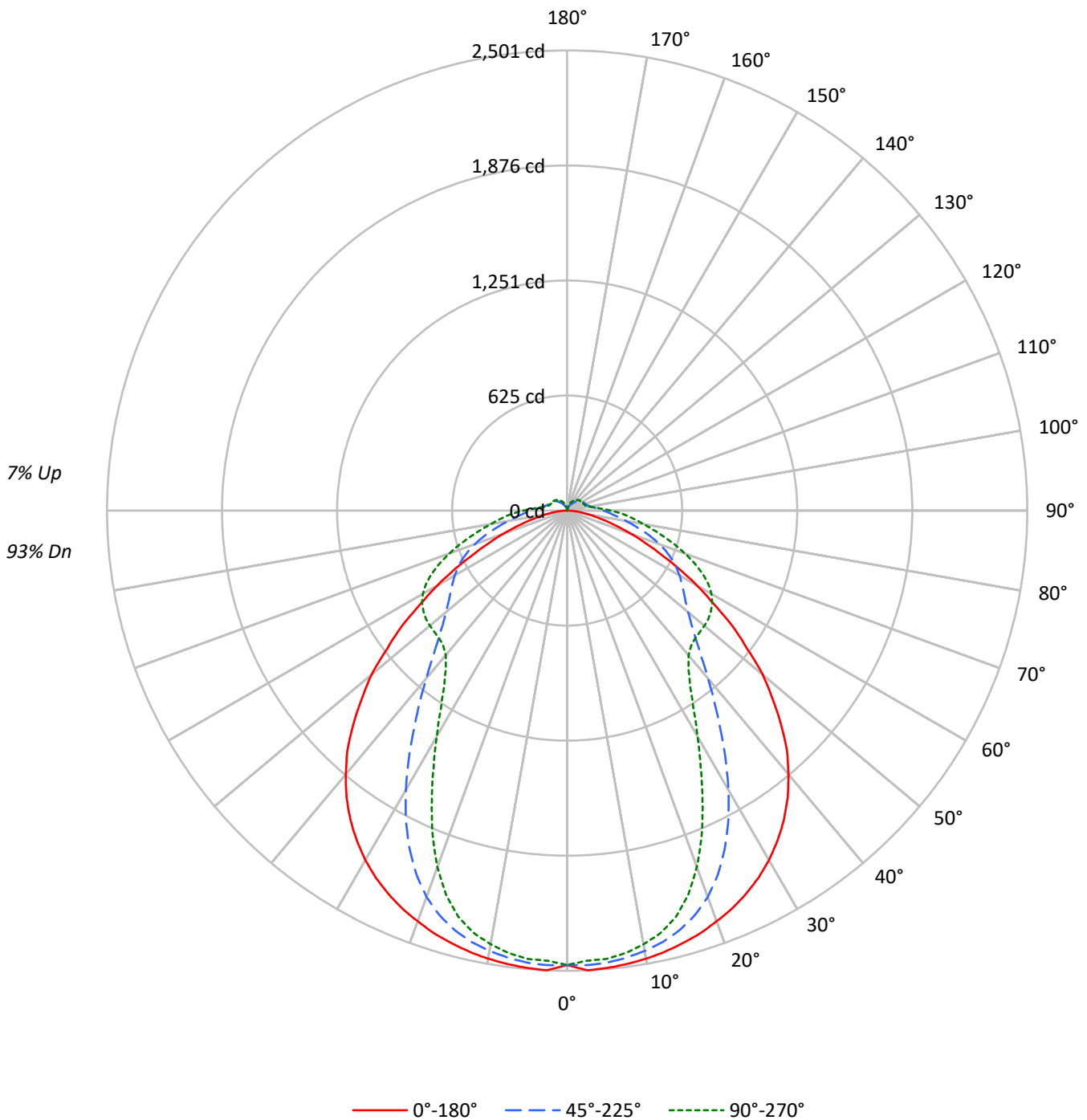
Lumens per Lamp: N/A
Luminaire Lumens: 6211.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19958	19958	19958
5°	20188	19517	19212
10°	20181	18978	18421
15°	20187	18342	17370
20°	20197	17397	15600
25°	20205	15941	13210
30°	20109	14027	10866
35°	19822	11934	9105
40°	19242	10107	8232
45°	18222	8784	8170
50°	16834	8030	8456
55°	14823	7718	8752
60°	12506	7608	8873
65°	10060	7440	8596
70°	8081	7055	7928
75°	6093	6386	7035
80°	4499	5733	6257
85°	3006	5410	5755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	3.8
10°-20°	660.4	10.6
20°-30°	923.2	14.9
30°-40°	957.6	15.4
40°-50°	884.7	14.2
50°-60°	789.9	12.7
60°-70°	640.1	10.3
70°-80°	425.7	6.9
80°-90°	243.8	3.9
90°-100°	134.9	2.2
100°-110°	91.3	1.5
110°-120°	76.1	1.2
120°-130°	61.8	1.0
130°-140°	44.6	0.7
140°-150°	26.9	0.4
150°-160°	12.9	0.2
160°-170°	3.3	0.1
170°-180°	0.0	0.0
0°-30°	1817.3	29.3
0°-40°	2774.9	44.7
0°-60°	4449.4	71.6
0°-90°	5759.1	92.7
90°-120°	302.3	4.9
90°-150°	435.6	7.0
90°-180°	452.0	7.3
0°-180°	6211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2470	2470	2470	2470	2470	
5°	2496	2454	2466	2449	2446	237
15°	2433	2382	2361	2308	2285	688
25°	2299	2197	2028	1815	1741	1059
35°	2053	1828	1453	1220	1166	1281
45°	1644	1303	990	954	983	1264
55°	1099	831	773	898	954	977
65°	561	502	629	771	811	567
75°	218	273	424	520	541	239
85°	44	127	250	320	328	51
90°	2	89	198	238	236	3
95°	2	75	157	167	162	2
105°	1	66	113	110	104	1
115°	1	59	100	99	96	1
125°	1	50	88	92	90	1
135°	2	38	70	82	82	2
145°	2	24	48	63	68	1
155°	2	15	30	40	48	1
165°	2	9	15	19	26	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°	2469.7	2469.7	2469.7	2469.7	2469.7
2.5°	2500.9	2460.1	2473.0	2462.2	2448.3
5°	2495.5	2453.6	2466.5	2449.3	2446.1
7.5°	2485.8	2444.0	2451.5	2431.1	2425.7
10°	2473.0	2429.0	2430.0	2401.0	2393.5
12.5°	2455.8	2407.5	2401.0	2361.3	2350.6
15°	2433.2	2381.7	2361.3	2307.7	2285.1
17.5°	2408.6	2348.5	2306.6	2223.9	2188.5
20°	2375.3	2307.7	2234.7	2109.1	2061.9
22.5°	2342.0	2258.3	2141.3	1973.9	1910.5
25°	2299.1	2197.1	2027.5	1815.0	1740.9
27.5°	2250.8	2125.2	1896.6	1651.9	1572.4
30°	2193.9	2038.3	1752.8	1491.9	1416.8
32.5°	2127.3	1940.6	1601.4	1348.1	1278.3
35°	2053.3	1827.9	1453.3	1220.4	1165.6
37.5°	1968.5	1704.5	1315.9	1117.3	1081.9
40°	1871.9	1570.3	1189.3	1037.9	1026.1
42.5°	1767.8	1439.3	1080.8	986.4	997.1
45°	1644.3	1303.0	989.6	954.2	983.2
47.5°	1514.5	1169.9	915.6	935.9	977.8
50°	1388.9	1046.5	857.6	924.1	973.5
52.5°	1233.3	935.9	811.4	913.4	967.1
55°	1099.1	830.8	772.8	898.4	954.2
57.5°	944.5	736.3	738.5	879.1	934.9
60°	815.7	650.4	705.2	852.2	905.9
62.5°	684.8	573.2	668.7	816.8	865.1
65°	561.4	502.3	629.0	770.7	811.4
67.5°	458.3	437.9	583.9	714.8	749.2
70°	371.4	378.9	534.5	652.6	681.6
72.5°	285.5	324.1	480.9	586.0	610.7
75°	217.9	272.6	424.0	519.5	541.0
77.5°	161.0	227.5	372.4	459.4	477.6
80°	113.8	187.8	324.1	406.8	420.7
82.5°	76.2	154.6	284.4	359.6	372.4
85°	44.0	126.7	250.1	319.9	328.4
87.5°	18.2	105.2	222.2	279.1	283.4
90°	2.1	89.1	197.5	238.3	236.1
92.5°	2.1	80.5	176.0	199.6	194.3
95°	2.1	75.1	156.7	167.4	162.1
97.5°	2.1	71.9	139.5	143.8	138.5
100°	1.1	69.8	127.7	127.7	122.4
102.5°	1.1	67.6	119.1	115.9	111.6
105°	1.1	65.5	112.7	109.5	104.1
107.5°	1.1	64.4	108.4	105.2	99.8
110°	1.1	62.3	105.2	102.0	97.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	61.2	103.0	100.9	95.5
115°	1.1	59.0	99.8	98.7	95.5
117.5°	1.1	56.9	97.7	97.7	94.5
120°	1.1	54.7	94.5	96.6	93.4
122.5°	1.1	52.6	91.2	94.5	91.2
125°	1.1	50.4	88.0	92.3	90.2
127.5°	2.1	47.2	83.7	90.2	88.0
130°	1.1	44.0	79.4	88.0	86.9
132.5°	2.1	40.8	75.1	84.8	84.8
135°	2.1	37.6	69.8	81.6	81.6
137.5°	2.1	33.3	64.4	77.3	78.4
140°	2.1	30.1	59.0	73.0	75.1
142.5°	2.1	26.8	53.7	68.7	71.9
145°	2.1	23.6	48.3	63.3	67.6
147.5°	2.1	21.5	42.9	56.9	63.3
150°	2.1	18.2	38.6	51.5	58.0
152.5°	2.1	16.1	34.3	46.2	53.7
155°	2.1	15.0	30.1	39.7	48.3
157.5°	2.1	12.9	25.8	34.3	42.9
160°	2.1	10.7	21.5	30.1	36.5
162.5°	2.1	9.7	18.2	24.7	32.2
165°	2.1	8.6	15.0	19.3	25.8
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)