

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-LD5-56SL-SLC-UNV-L830-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-LD5-56SL-SLC-UNV-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

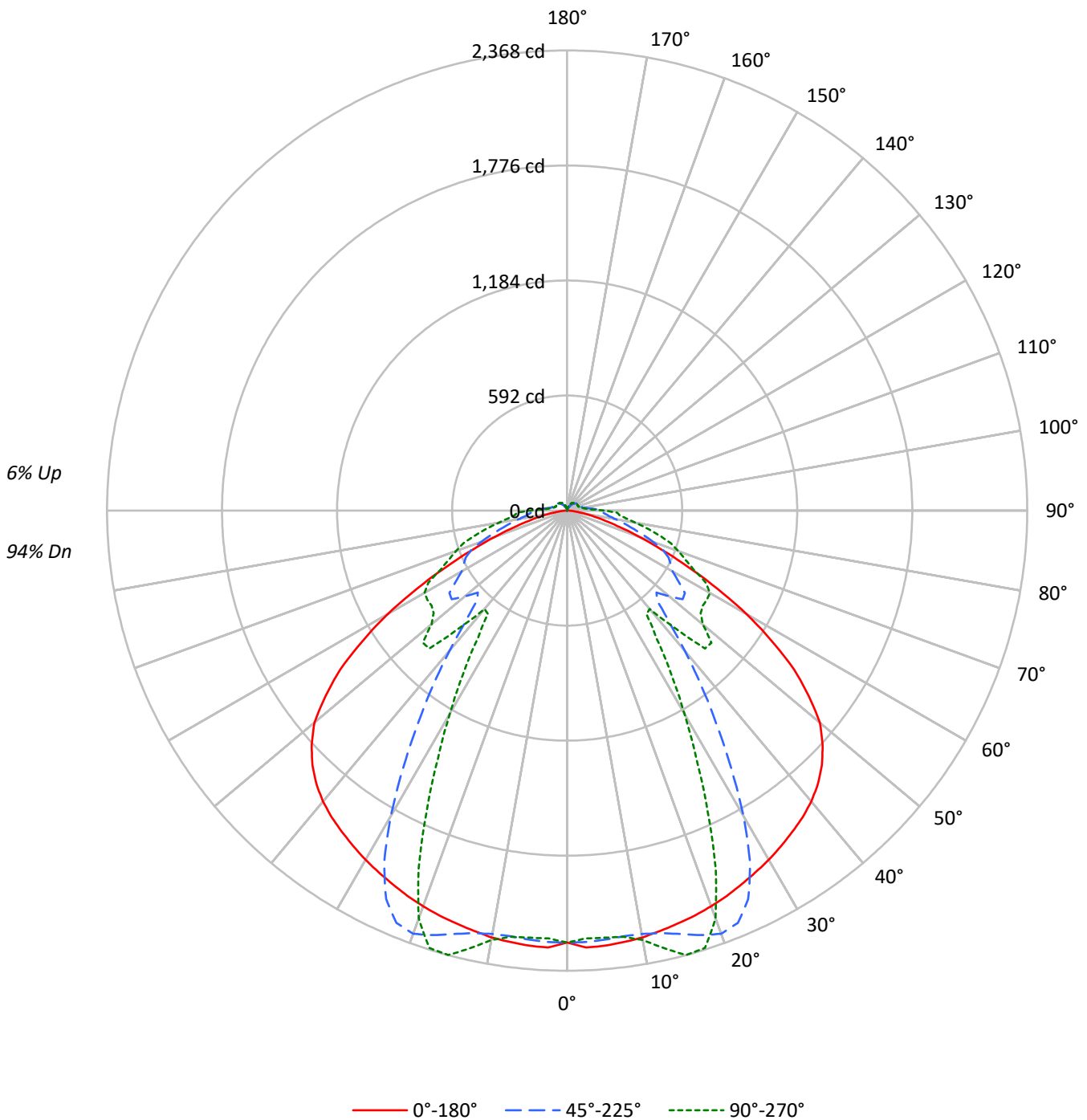
Lumens per Lamp: N/A
Luminaire Lumens: 5710.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 46
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°	17962	17962	17962
5°	18181	17542	17327
10°	18204	17275	17267
15°	18254	17518	17997
20°	18424	18040	16892
25°	18653	17337	13007
30°	19021	14521	9252
35°	19493	10997	6265
40°	20088	7995	5304
45°	20544	5800	8340
50°	20573	6421	7915
55°	19230	7391	7815
60°	16384	6763	8307
65°	12326	6820	7599
70°	8649	6209	7073
75°	5668	5202	6347
80°	3617	4456	5283
85°	1947	4235	4742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.5	3.7
10°-20°	638.6	11.2
20°-30°	927.7	16.2
30°-40°	886.4	15.5
40°-50°	810.8	14.2
50°-60°	748.7	13.1
60°-70°	594.7	10.4
70°-80°	367.0	6.4
80°-90°	199.9	3.5
90°-100°	101.0	1.8
100°-110°	63.5	1.1
110°-120°	53.8	0.9
120°-130°	43.9	0.8
130°-140°	31.5	0.6
140°-150°	19.4	0.3
150°-160°	9.2	0.2
160°-170°	2.4	0.0
170°-180°	0.0	0.0
0°-30°	1777.8	31.1
0°-40°	2664.2	46.7
0°-60°	4223.7	74.0
0°-90°	5385.3	94.3
90°-120°	218.3	3.8
90°-150°	313.1	5.5
90°-180°	325.0	5.7
0°-180°	5710.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2223	2223	2223	2223	2223	
5°	2247	2213	2217	2205	2206	214
15°	2200	2171	2255	2339	2368	623
25°	2122	2164	2205	1867	1714	981
35°	2019	1987	1339	922	802	1266
45°	1854	1293	653	833	1004	1425
55°	1426	663	740	796	852	1256
65°	688	430	577	701	717	696
75°	203	229	345	458	488	230
85°	28	97	196	267	271	36
90°	1	73	175	208	192	1
95°	0	68	121	107	101	0
105°	0	61	75	68	67	0
115°	0	50	72	64	61	0
125°	1	40	64	62	59	1
135°	1	28	51	56	54	1
145°	1	18	35	45	48	1
155°	2	11	22	28	34	1
165°	2	6	11	14	19	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°	2222.8	2222.8	2222.8	2222.8	2222.8
2.5°	2250.4	2217.9	2221.9	2215.0	2203.2
5°	2247.4	2213.0	2216.9	2205.1	2206.1
7.5°	2239.6	2204.2	2209.1	2207.1	2212.0
10°	2230.7	2193.3	2212.0	2228.8	2243.5
12.5°	2215.0	2181.5	2226.8	2276.0	2306.5
15°	2200.2	2170.7	2255.3	2339.0	2367.5
17.5°	2185.5	2166.8	2290.7	2363.6	2359.6
20°	2166.8	2164.8	2317.3	2292.7	2232.7
22.5°	2146.1	2165.8	2296.6	2116.6	1998.5
25°	2122.5	2163.8	2205.1	1866.6	1714.1
27.5°	2098.9	2155.0	2038.8	1593.1	1442.5
30°	2075.2	2131.3	1814.5	1343.2	1206.4
32.5°	2047.7	2080.2	1570.5	1121.8	995.8
35°	2019.2	1986.7	1339.2	922.0	802.0
37.5°	1989.6	1851.9	1131.6	746.9	670.1
40°	1954.2	1682.6	940.7	640.6	661.2
42.5°	1909.9	1491.7	772.4	672.1	815.7
45°	1853.8	1293.0	653.4	833.4	1003.7
47.5°	1783.0	1102.1	623.9	954.5	1007.6
50°	1697.4	926.9	685.8	915.1	911.2
52.5°	1567.5	781.3	748.8	834.4	865.9
55°	1425.8	663.2	740.0	796.1	852.1
57.5°	1246.7	583.5	679.0	788.2	853.1
60°	1068.6	530.4	626.8	787.2	848.2
62.5°	871.8	482.2	600.2	768.5	804.9
65°	687.8	430.0	576.6	700.6	717.3
67.5°	527.4	376.9	535.3	624.8	658.3
70°	397.5	324.7	470.4	566.8	608.1
72.5°	286.3	275.5	403.4	515.6	558.9
75°	202.7	229.3	345.4	457.6	488.1
77.5°	139.7	187.0	296.2	393.6	418.2
80°	91.5	149.6	251.9	338.5	355.2
82.5°	55.1	120.0	218.4	296.2	305.0
85°	28.5	97.4	195.8	266.7	270.6
87.5°	8.9	81.7	183.0	252.9	257.8
90°	1.0	72.8	175.2	207.6	191.9
92.5°	0.0	68.9	151.5	141.7	126.9
95°	0.0	67.9	121.0	107.3	101.4
97.5°	0.0	65.9	99.4	89.5	86.6
100°	0.0	64.0	85.6	78.7	77.7
102.5°	0.0	63.0	77.7	71.8	70.8
105°	0.0	61.0	74.8	67.9	66.9
107.5°	0.0	58.1	72.8	65.9	64.0
110°	0.0	55.1	72.8	64.9	62.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	52.2	72.8	64.0	61.0
115°	0.0	50.2	71.8	64.0	61.0
117.5°	1.0	48.2	70.8	64.0	61.0
120°	0.0	46.2	68.9	64.0	60.0
122.5°	1.0	43.3	66.9	63.0	60.0
125°	1.0	40.3	64.0	62.0	59.0
127.5°	1.0	37.4	61.0	60.0	57.1
130°	1.0	34.4	58.1	59.0	56.1
132.5°	1.0	31.5	54.1	57.1	55.1
135°	1.0	28.5	51.2	56.1	54.1
137.5°	1.0	25.6	47.2	53.1	53.1
140°	1.0	22.6	43.3	51.2	52.2
142.5°	1.0	20.7	39.4	49.2	50.2
145°	1.0	17.7	35.4	45.3	48.2
147.5°	1.0	15.7	31.5	41.3	45.3
150°	1.0	13.8	27.6	37.4	41.3
152.5°	1.0	11.8	24.6	32.5	38.4
155°	2.0	10.8	21.6	28.5	34.4
157.5°	2.0	8.9	17.7	24.6	29.5
160°	2.0	7.9	15.7	20.7	26.6
162.5°	2.0	6.9	12.8	17.7	22.6
165°	2.0	5.9	10.8	13.8	18.7
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)