

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: P197387

Luminaire Tested: **8WSL-LD2-120-UNV-L840-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28104)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8WSL-LD2-120-UNV-L840-CD2-U
Description: 8FT. Linear Wavestream System, L840
Light Source: (476) 4000K CCT, 80 CRI LEDS
EL236N0119D840
Ballast/Driver: OSRAM
OT50W

Summary

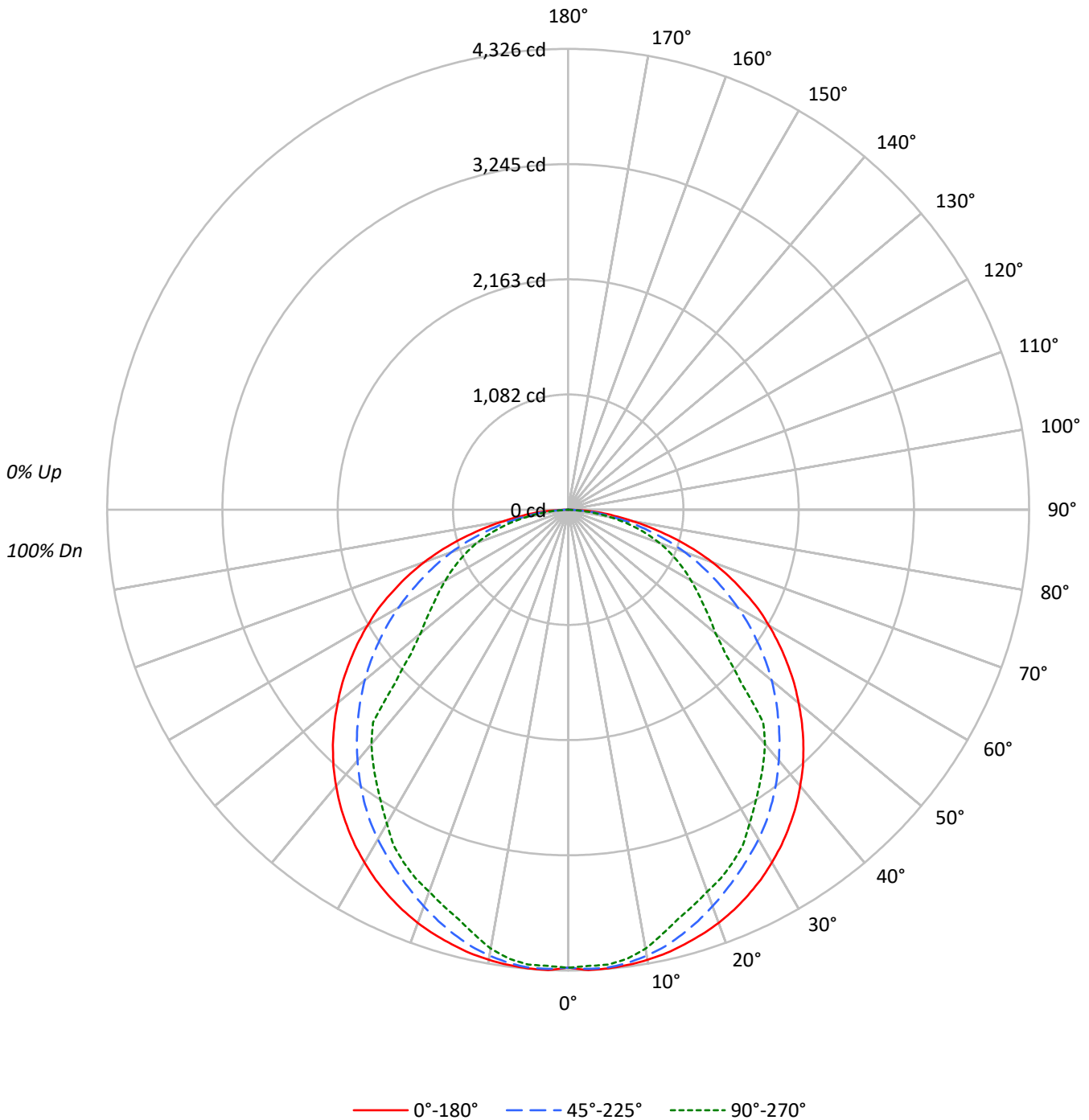
Lumens per Lamp: N/A
Luminaire Lumens: 11976.0 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Direct

Input Watts (W): 113.5
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	35	33
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12177	12177	12177
5°	12291	12268	12189
10°	12342	12228	12034
15°	12386	12107	11665
20°	12445	11943	11501
25°	12482	11789	11417
30°	12505	11689	11132
35°	12522	11550	10837
40°	12526	11369	10622
45°	12507	11174	9190
50°	12449	10982	7962
55°	12386	10722	7631
60°	12322	10415	7542
65°	12162	10038	7542
70°	11911	9647	7547
75°	11144	8889	7328
80°	9952	7691	6528
85°	9142	5925	4765



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.4	3.4
10°-20°	1158.9	9.7
20°-30°	1747.1	14.6
30°-40°	2097.6	17.5
40°-50°	2136.4	17.8
50°-60°	1874.9	15.7
60°-70°	1458.4	12.2
70°-80°	867.4	7.2
80°-90°	227.0	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3314.4	27.7
0°-40°	5412.0	45.2
0°-60°	9423.2	78.7
0°-90°	11976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11976.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4299	4299	4299	4299	4299	
5°	4323	4283	4315	4299	4287	412
15°	4224	4164	4128	4025	3978	1194
25°	3994	3903	3772	3673	3653	1841
35°	3621	3506	3340	3182	3134	2266
45°	3122	3019	2789	2575	2294	2407
55°	2508	2433	2171	1739	1545	2243
65°	1815	1743	1498	1181	1125	1797
75°	1018	967	812	658	670	1077
85°	281	250	182	147	147	308
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4298.8	4298.8	4298.8	4298.8	4298.8
2.5°	4326.5	4282.9	4314.6	4306.7	4286.9
5°	4322.6	4282.9	4314.6	4298.8	4286.9
7.5°	4310.7	4271.0	4290.9	4267.1	4251.2
10°	4290.9	4247.3	4251.2	4211.6	4183.9
12.5°	4263.1	4211.6	4199.7	4120.5	4080.9
15°	4223.5	4164.1	4128.4	4025.4	3977.9
17.5°	4179.9	4112.6	4049.2	3934.3	3898.6
20°	4128.4	4049.2	3962.0	3843.2	3815.4
22.5°	4065.0	3981.8	3866.9	3759.9	3744.1
25°	3993.7	3902.6	3771.8	3672.8	3653.0
27.5°	3914.5	3807.5	3672.8	3573.7	3550.0
30°	3823.3	3712.4	3573.7	3458.8	3403.4
32.5°	3728.3	3613.4	3462.8	3316.2	3264.7
35°	3621.3	3506.4	3340.0	3181.5	3134.0
37.5°	3510.3	3391.5	3213.2	3046.8	3007.2
40°	3387.5	3272.6	3074.5	2912.1	2872.5
42.5°	3260.7	3149.8	2935.8	2773.4	2710.0
45°	3122.1	3019.1	2789.3	2575.3	2294.0
47.5°	2975.5	2880.4	2642.7	2325.7	2000.8
50°	2824.9	2737.7	2492.1	2103.8	1806.7
52.5°	2670.4	2591.2	2337.6	1909.7	1672.0
55°	2508.0	2432.7	2171.2	1739.3	1545.2
57.5°	2345.5	2270.2	2012.7	1584.8	1438.2
60°	2175.1	2103.8	1838.4	1442.2	1331.2
62.5°	2008.7	1929.5	1668.0	1311.4	1232.2
65°	1814.6	1743.3	1497.6	1180.7	1125.2
67.5°	1632.3	1557.1	1331.2	1053.9	1022.2
70°	1438.2	1362.9	1164.8	923.1	911.3
72.5°	1232.2	1172.8	990.5	796.4	788.4
75°	1018.2	966.7	812.2	657.7	669.6
77.5°	808.3	776.6	641.8	526.9	534.9
80°	610.1	586.4	471.5	392.2	400.2
82.5°	435.8	416.0	320.9	261.5	261.5
85°	281.3	249.6	182.3	146.6	146.6
87.5°	110.9	91.1	55.5	15.8	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)