

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: P192403

Luminaire Tested: **4WSL-LD2-35-UNV-L840-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P192403
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: 4WSL-LD2-35-UNV-L840-CD1-U
Description: 4FT Linear Wavestream System, L840
Light Source: (238) 4000K CCT, 80 CRI LEDS
EL236N0119D840
Ballast/Driver: OSRAM
OT30W

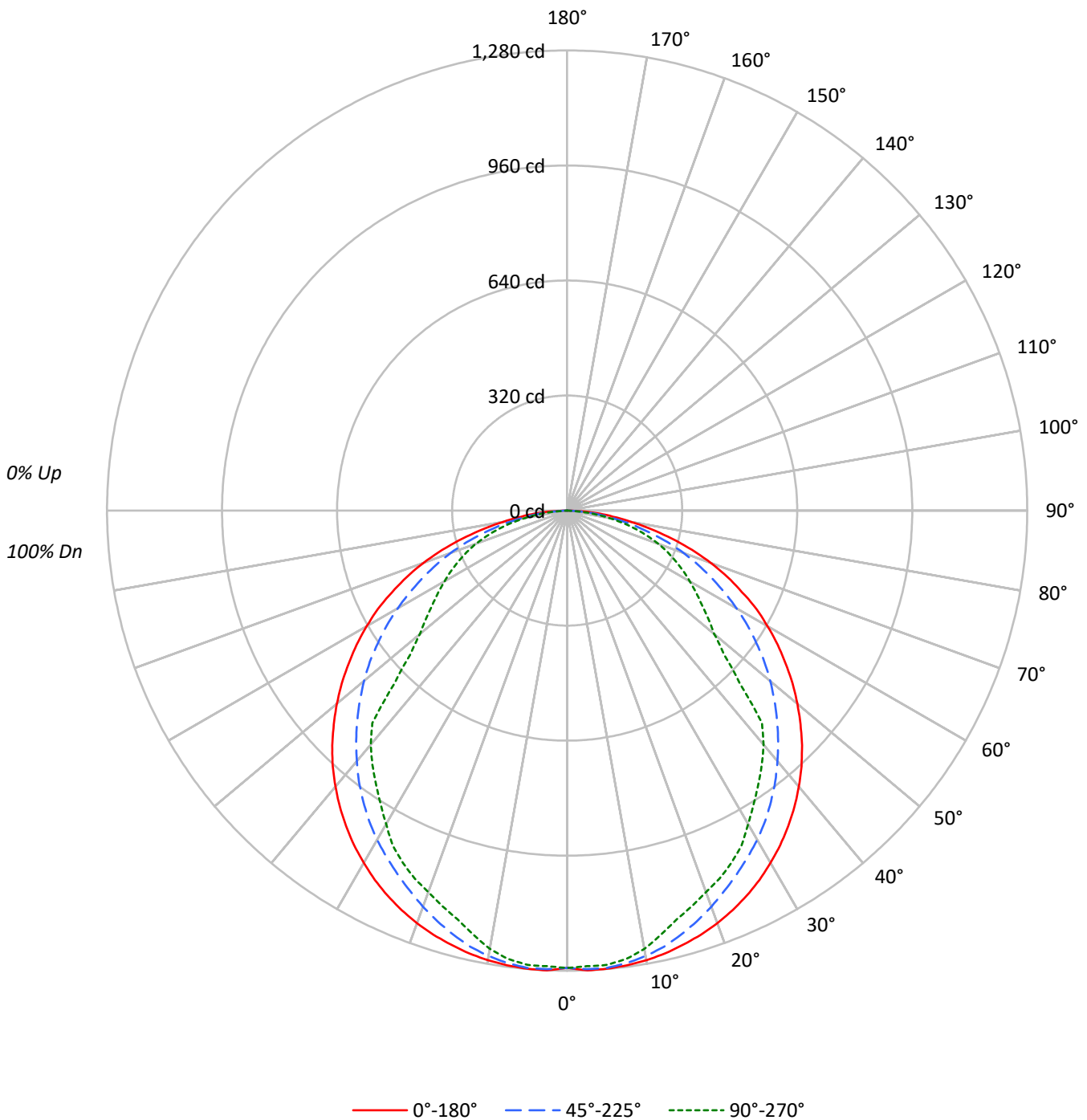
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3544.0 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 3.8' x H: 0')
CIE Type: Direct

Input Watts (W): 30.6
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°	7207	7207	7207
5°	7275	7261	7214
10°	7305	7237	7122
15°	7330	7165	6904
20°	7365	7069	6807
25°	7387	6977	6757
30°	7401	6918	6588
35°	7411	6836	6414
40°	7414	6728	6286
45°	7402	6613	5439
50°	7368	6500	4712
55°	7331	6346	4517
60°	7293	6164	4463
65°	7199	5941	4464
70°	7050	5710	4467
75°	6595	5262	4336
80°	5892	4551	3863
85°	5408	3504	2821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	3.4
10°-20°	343.0	9.7
20°-30°	517.0	14.6
30°-40°	620.7	17.5
40°-50°	632.2	17.8
50°-60°	554.8	15.7
60°-70°	431.6	12.2
70°-80°	256.7	7.2
80°-90°	67.2	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°	980.8	27.7
0°-40°	1601.5	45.2
0°-60°	2788.6	78.7
0°-90°	3544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3544.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1279	1267	1277	1272	1269	122
15°	1250	1232	1222	1191	1177	353
25°	1182	1155	1116	1087	1081	545
35°	1072	1038	988	942	927	671
45°	924	893	825	762	679	712
55°	742	720	642	515	457	664
65°	537	516	443	349	333	532
75°	301	286	240	195	198	319
85°	83	74	54	43	43	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1272.1	1272.1	1272.1	1272.1	1272.1
2.5°	1280.3	1267.4	1276.8	1274.5	1268.6
5°	1279.2	1267.4	1276.8	1272.1	1268.6
7.5°	1275.6	1263.9	1269.8	1262.7	1258.0
10°	1269.8	1256.9	1258.0	1246.3	1238.1
12.5°	1261.6	1246.3	1242.8	1219.4	1207.6
15°	1249.8	1232.3	1221.7	1191.2	1177.1
17.5°	1236.9	1217.0	1198.3	1164.3	1153.7
20°	1221.7	1198.3	1172.5	1137.3	1129.1
22.5°	1202.9	1178.3	1144.3	1112.7	1108.0
25°	1181.8	1154.9	1116.2	1086.9	1081.0
27.5°	1158.4	1126.7	1086.9	1057.6	1050.5
30°	1131.4	1098.6	1057.6	1023.6	1007.1
32.5°	1103.3	1069.3	1024.7	981.3	966.1
35°	1071.6	1037.6	988.4	941.5	927.4
37.5°	1038.8	1003.6	950.9	901.6	889.9
40°	1002.5	968.5	909.8	861.8	850.0
42.5°	964.9	932.1	868.8	820.7	802.0
45°	923.9	893.4	825.4	762.1	678.9
47.5°	880.5	852.4	782.0	688.2	592.1
50°	836.0	810.2	737.5	622.6	534.6
52.5°	790.2	766.8	691.8	565.1	494.8
55°	742.2	719.9	642.5	514.7	457.3
57.5°	694.1	671.8	595.6	469.0	425.6
60°	643.7	622.6	544.0	426.8	393.9
62.5°	594.4	571.0	493.6	388.1	364.6
65°	537.0	515.9	443.2	349.4	333.0
67.5°	483.1	460.8	393.9	311.9	302.5
70°	425.6	403.3	344.7	273.2	269.7
72.5°	364.6	347.0	293.1	235.7	233.3
75°	301.3	286.1	240.4	194.6	198.1
77.5°	239.2	229.8	189.9	155.9	158.3
80°	180.6	173.5	139.5	116.1	118.4
82.5°	129.0	123.1	95.0	77.4	77.4
85°	83.2	73.9	53.9	43.4	43.4
87.5°	32.8	27.0	16.4	4.7	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)