

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: P229442

Luminaire Tested: **24ALNG-LD5-36-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36086)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ALNG-LD5-36-UNV-L840-CD1-SVPD1-U
Description: METALUX 2X4 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR
Light Source: (252)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3509.0 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

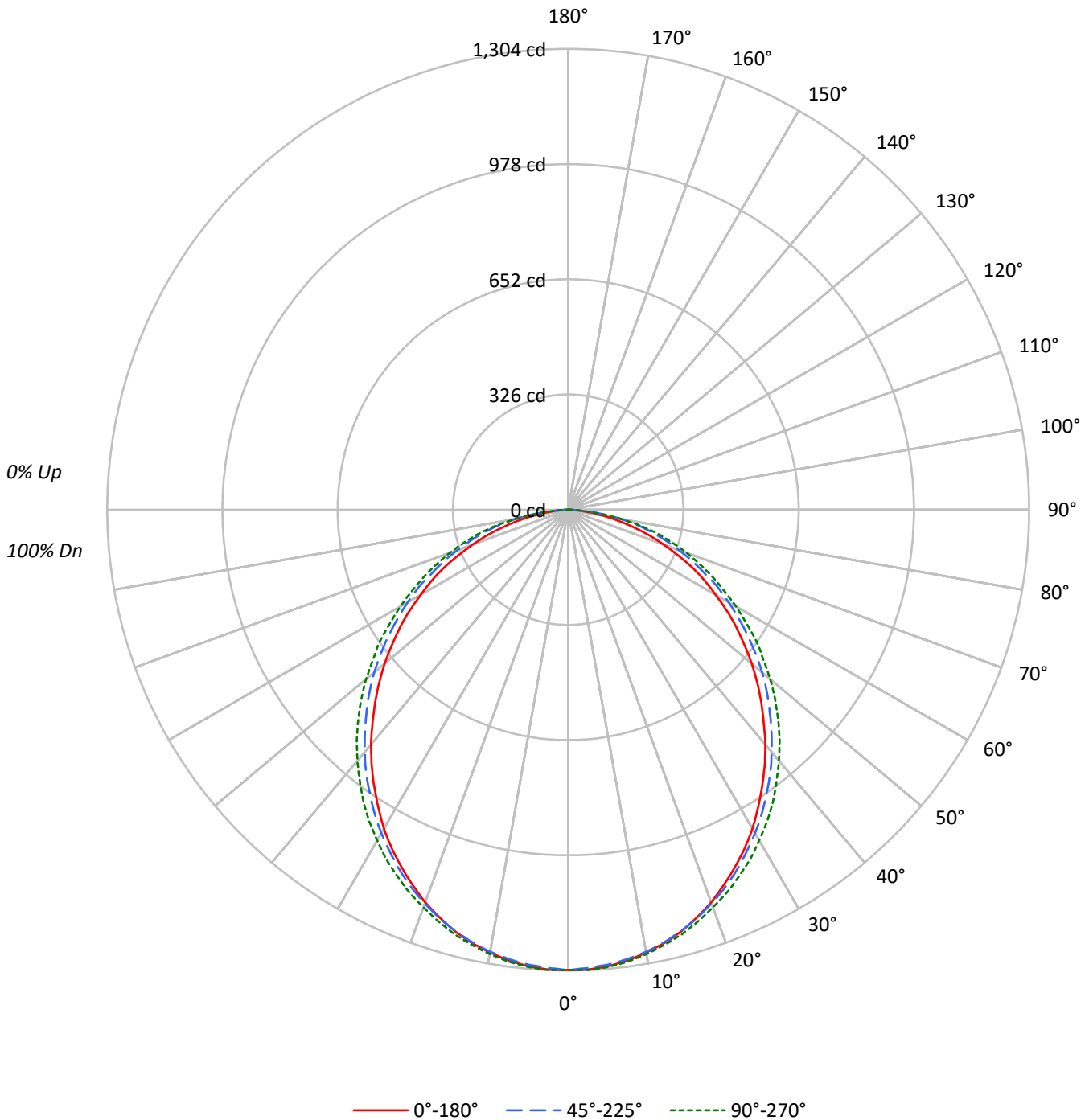
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1995	1995	1995
5°	1994	1987	1997
10°	1979	1975	1986
15°	1959	1957	1972
20°	1927	1932	1951
25°	1886	1904	1933
30°	1843	1870	1911
35°	1789	1830	1888
40°	1734	1790	1855
45°	1674	1746	1819
50°	1615	1706	1778
55°	1551	1656	1739
60°	1474	1605	1680
65°	1404	1543	1635
70°	1285	1487	1590
75°	1123	1437	1547
80°	938	1347	1336
85°	650	956	854



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	3.5
10°-20°	348.8	9.9
20°-30°	520.0	14.8
30°-40°	613.9	17.5
40°-50°	622.3	17.7
50°-60°	551.9	15.7
60°-70°	418.6	11.9
70°-80°	247.9	7.1
80°-90°	62.5	1.8
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°	991.8	28.3
0°-40°	1605.7	45.8
0°-60°	2779.9	79.2
0°-90°	3509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1302	1302	1302	1302	1302	
5°	1297	1296	1292	1297	1299	123
15°	1235	1235	1234	1240	1244	348
25°	1116	1118	1127	1140	1144	514
35°	957	965	979	1001	1010	598
45°	773	783	806	830	840	596
55°	581	592	620	643	651	519
65°	388	399	426	444	451	382
75°	190	215	243	256	261	203
85°	37	56	54	50	49	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1302.5	1302.5	1302.5	1302.5	1302.5
2.5°	1302.5	1301.3	1297.8	1302.5	1303.6
5°	1296.7	1295.5	1292.1	1296.7	1299.0
7.5°	1286.3	1286.3	1282.8	1287.4	1289.7
10°	1272.4	1272.4	1270.1	1274.7	1277.0
12.5°	1256.2	1256.2	1253.9	1259.7	1260.8
15°	1235.4	1235.4	1234.2	1240.0	1243.5
17.5°	1209.9	1209.9	1212.2	1220.3	1221.5
20°	1182.2	1183.3	1185.6	1196.0	1197.2
22.5°	1149.8	1153.2	1157.9	1169.4	1172.9
25°	1116.2	1118.5	1126.6	1140.5	1144.0
27.5°	1080.4	1083.8	1091.9	1109.3	1115.1
30°	1042.2	1044.5	1057.2	1074.6	1080.4
32.5°	999.4	1005.2	1019.1	1039.9	1046.8
35°	956.6	964.7	978.6	1000.6	1009.8
37.5°	912.7	919.6	939.3	961.2	968.2
40°	867.5	874.5	895.3	919.6	927.7
42.5°	819.0	829.4	851.3	875.6	884.9
45°	772.7	783.1	806.2	830.5	839.8
47.5°	725.3	735.7	762.3	783.1	793.5
50°	677.8	690.6	716.0	738.0	746.1
52.5°	628.1	640.8	667.4	689.4	695.2
55°	580.7	592.2	620.0	643.1	651.2
57.5°	532.1	544.8	571.4	594.6	596.9
60°	481.2	495.1	524.0	542.5	548.3
62.5°	436.1	447.7	478.9	493.9	497.4
65°	387.5	399.1	425.7	444.2	451.1
67.5°	335.4	351.6	379.4	397.9	402.5
70°	286.9	306.5	332.0	351.6	355.1
72.5°	238.3	259.1	288.0	304.2	307.7
75°	189.7	215.1	242.9	255.6	261.4
77.5°	146.9	171.2	199.0	210.5	209.4
80°	106.4	130.7	152.7	152.7	151.5
82.5°	68.2	92.5	104.1	100.6	98.3
85°	37.0	55.5	54.4	49.7	48.6
87.5°	15.0	18.5	13.9	10.4	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)