

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: P229925

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-7)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-80-RDP-UNV-L840-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6599.0 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

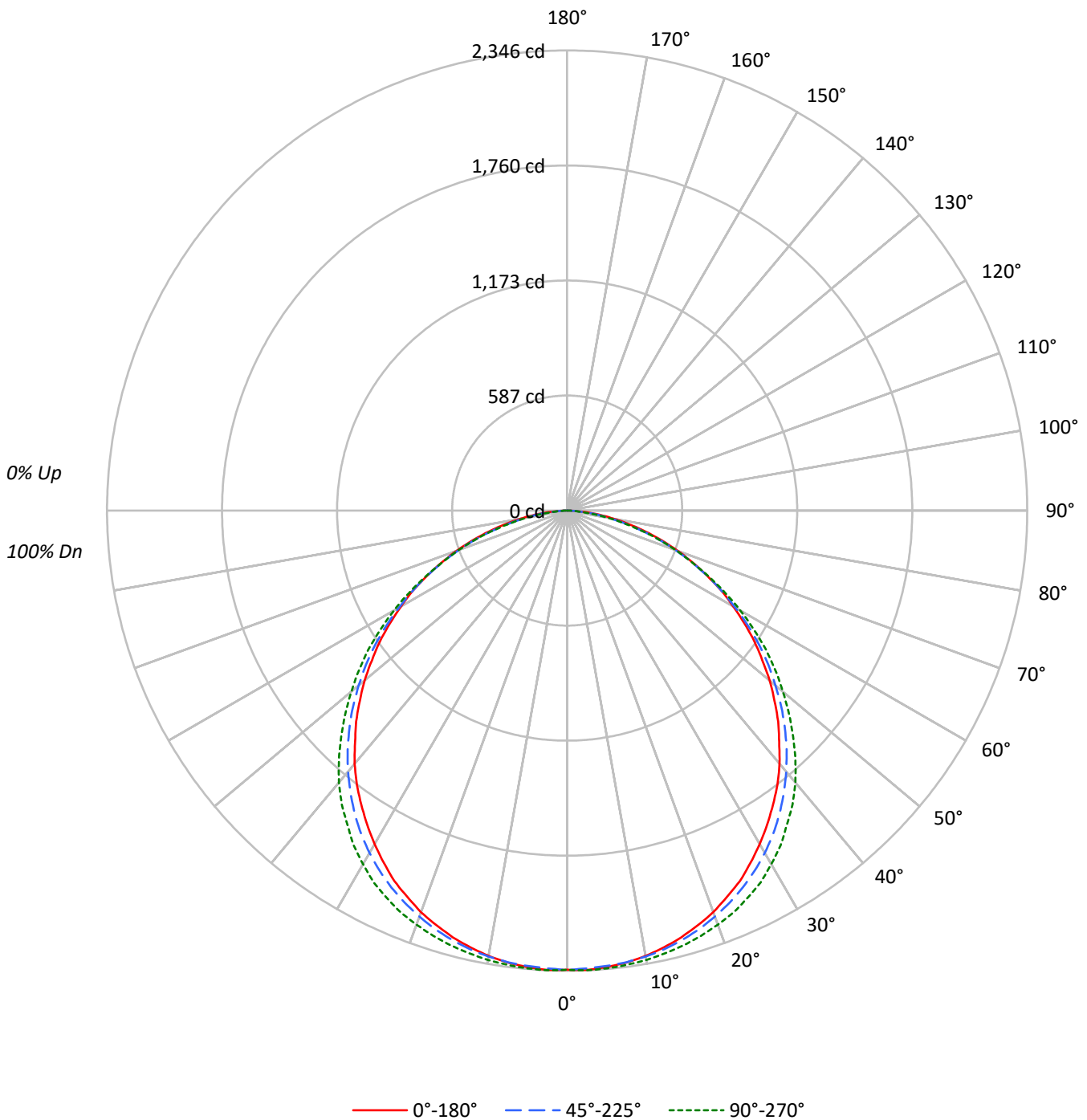
Input Watts (W): 67.45
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	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	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3586	3586	3586
5°	3591	3583	3602
10°	3586	3590	3618
15°	3571	3593	3639
20°	3552	3590	3662
25°	3522	3583	3680
30°	3472	3564	3681
35°	3421	3529	3653
40°	3369	3474	3620
45°	3296	3400	3528
50°	3213	3304	3422
55°	3115	3192	3306
60°	2996	3034	3127
65°	2857	2857	2887
70°	2686	2637	2631
75°	2451	2304	2296
80°	2135	1918	1832
85°	1692	1330	1040



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.2	3.4
10°-20°	640.9	9.7
20°-30°	979.2	14.8
30°-40°	1181.3	17.9
40°-50°	1210.8	18.3
50°-60°	1066.7	16.2
60°-70°	780.7	11.8
70°-80°	419.6	6.4
80°-90°	97.7	1.5
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°	1842.2	27.9
0°-40°	3023.5	45.8
0°-60°	5301.0	80.3
0°-90°	6599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6599.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2341	2341	2341	2341	2341	
5°	2336	2333	2330	2337	2343	222
15°	2252	2255	2266	2284	2295	635
25°	2084	2090	2120	2161	2178	959
35°	1830	1839	1888	1940	1954	1145
45°	1522	1520	1570	1615	1629	1172
55°	1167	1160	1196	1223	1238	1041
65°	788	774	788	798	796	782
75°	414	395	389	389	388	440
85°	96	85	76	62	59	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2341.4	2341.4	2341.4	2341.4	2341.4
2.5°	2344.2	2340.1	2335.9	2340.1	2345.6
5°	2335.9	2333.2	2330.4	2337.3	2342.8
7.5°	2323.6	2320.8	2322.2	2331.8	2335.9
10°	2305.7	2305.7	2308.4	2319.4	2326.3
12.5°	2280.9	2282.3	2290.5	2304.3	2311.2
15°	2252.0	2254.8	2265.8	2283.7	2294.7
17.5°	2216.2	2223.1	2238.3	2260.3	2272.6
20°	2179.1	2183.2	2202.5	2234.1	2246.5
22.5°	2131.0	2139.2	2164.0	2201.1	2217.6
25°	2084.2	2089.7	2119.9	2161.2	2177.7
27.5°	2025.0	2033.3	2070.4	2118.6	2136.5
30°	1963.1	1972.7	2015.4	2062.2	2081.4
32.5°	1898.5	1910.8	1954.9	2004.4	2025.0
35°	1829.7	1839.3	1887.5	1939.7	1953.5
37.5°	1760.9	1763.6	1814.5	1865.4	1887.5
40°	1685.2	1688.0	1737.5	1785.7	1810.4
42.5°	1599.9	1608.2	1656.3	1703.1	1722.4
45°	1521.5	1520.1	1569.7	1615.1	1628.8
47.5°	1433.5	1436.2	1481.6	1525.6	1533.9
50°	1348.2	1346.8	1386.7	1425.2	1436.2
52.5°	1254.6	1253.3	1293.2	1324.8	1338.6
55°	1166.6	1159.7	1195.5	1223.0	1238.1
57.5°	1071.7	1062.0	1093.7	1121.2	1128.1
60°	978.1	967.1	990.5	1011.1	1020.8
62.5°	888.7	874.9	890.1	908.0	909.3
65°	788.3	774.5	788.3	797.9	796.5
67.5°	693.4	678.2	685.1	689.2	687.8
70°	599.8	579.2	588.8	586.0	587.4
72.5°	506.3	489.7	488.4	484.2	488.4
75°	414.1	394.8	389.3	389.3	387.9
77.5°	326.0	306.8	301.3	298.5	294.4
80°	242.1	227.0	217.4	216.0	207.7
82.5°	170.6	151.3	148.6	136.2	127.9
85°	96.3	85.3	75.7	61.9	59.2
87.5°	35.8	31.6	24.8	23.4	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)