

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: P229898

Luminaire Tested: **24RLN-LD5-42-RDP-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229898
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-LD5-42-RDP-UNV-L830-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3309.0 lumens
Efficiency: N/A
Efficacy: 106.1 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

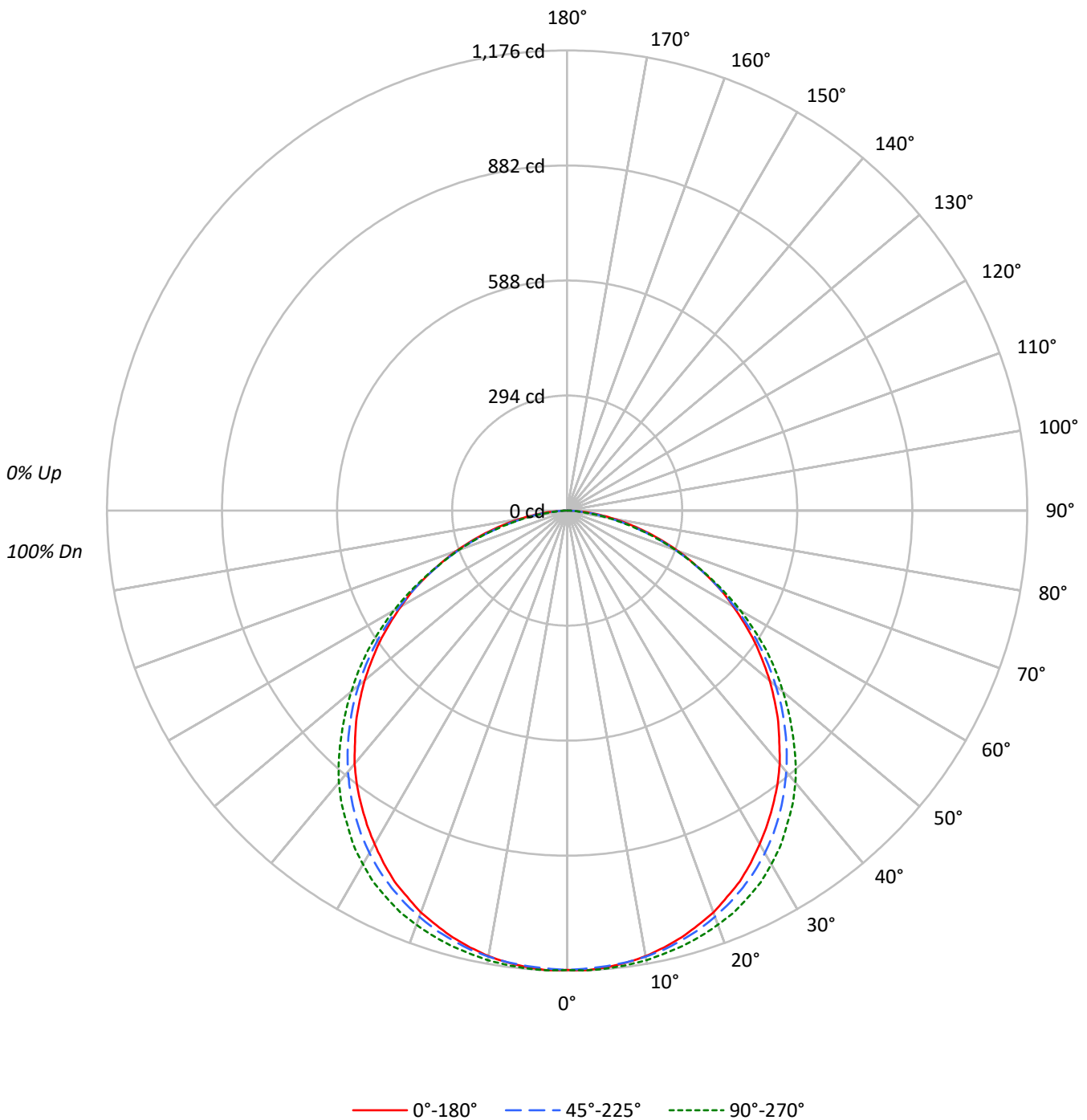
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1798	1798	1798
5°	1801	1797	1806
10°	1798	1800	1814
15°	1791	1802	1825
20°	1781	1800	1836
25°	1766	1796	1845
30°	1741	1787	1846
35°	1716	1770	1832
40°	1690	1742	1815
45°	1653	1705	1769
50°	1611	1657	1716
55°	1562	1601	1658
60°	1503	1522	1568
65°	1433	1433	1448
70°	1347	1322	1319
75°	1229	1155	1151
80°	1071	961	919
85°	849	666	522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.4
10°-20°	321.4	9.7
20°-30°	491.0	14.8
30°-40°	592.3	17.9
40°-50°	607.1	18.3
50°-60°	534.9	16.2
60°-70°	391.5	11.8
70°-80°	210.4	6.4
80°-90°	49.0	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°	923.8	27.9
0°-40°	1516.1	45.8
0°-60°	2658.1	80.3
0°-90°	3309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1171	1170	1169	1172	1175	111
15°	1129	1131	1136	1145	1151	319
25°	1045	1048	1063	1084	1092	481
35°	918	922	946	973	980	574
45°	763	762	787	810	817	588
55°	585	582	600	613	621	522
65°	395	388	395	400	399	392
75°	208	198	195	195	194	220
85°	48	43	38	31	30	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1174.1	1174.1	1174.1	1174.1	1174.1
2.5°	1175.5	1173.4	1171.3	1173.4	1176.2
5°	1171.3	1169.9	1168.6	1172.0	1174.8
7.5°	1165.1	1163.7	1164.4	1169.3	1171.3
10°	1156.2	1156.2	1157.5	1163.1	1166.5
12.5°	1143.7	1144.4	1148.6	1155.5	1158.9
15°	1129.2	1130.6	1136.1	1145.1	1150.6
17.5°	1111.3	1114.8	1122.4	1133.4	1139.6
20°	1092.7	1094.8	1104.4	1120.3	1126.5
22.5°	1068.5	1072.7	1085.1	1103.7	1112.0
25°	1045.1	1047.8	1063.0	1083.7	1092.0
27.5°	1015.4	1019.6	1038.2	1062.3	1071.3
30°	984.4	989.2	1010.6	1034.1	1043.7
32.5°	952.0	958.2	980.2	1005.1	1015.4
35°	917.5	922.3	946.4	972.7	979.6
37.5°	883.0	884.4	909.9	935.4	946.4
40°	845.0	846.4	871.3	895.4	907.8
42.5°	802.3	806.4	830.6	854.0	863.7
45°	763.0	762.3	787.1	809.9	816.8
47.5°	718.8	720.2	742.9	765.0	769.2
50°	676.0	675.3	695.3	714.7	720.2
52.5°	629.1	628.4	648.4	664.3	671.2
55°	585.0	581.5	599.5	613.3	620.8
57.5°	537.4	532.5	548.4	562.2	565.7
60°	490.5	484.9	496.7	507.0	511.9
62.5°	445.6	438.7	446.3	455.3	456.0
65°	395.3	388.4	395.3	400.1	399.4
67.5°	347.7	340.1	343.5	345.6	344.9
70°	300.8	290.4	295.2	293.9	294.6
72.5°	253.9	245.6	244.9	242.8	244.9
75°	207.6	198.0	195.2	195.2	194.5
77.5°	163.5	153.8	151.1	149.7	147.6
80°	121.4	113.8	109.0	108.3	104.2
82.5°	85.5	75.9	74.5	68.3	64.2
85°	48.3	42.8	37.9	31.0	29.7
87.5°	17.9	15.9	12.4	11.7	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)