

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: P229945

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229945
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-L935-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (252)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5682.0 lumens
Efficiency: N/A
Efficacy: 84.2 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

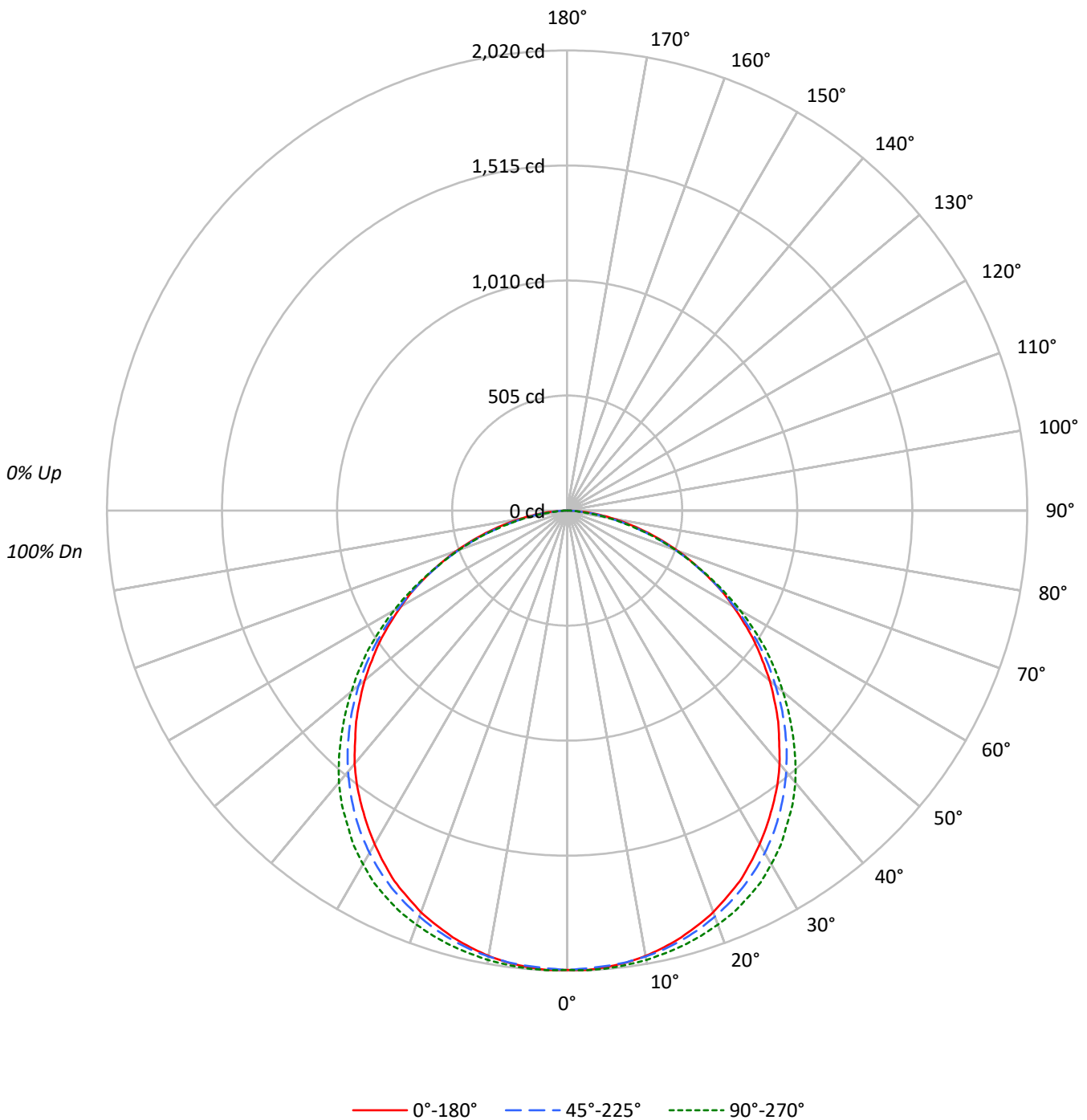
Input Watts (W): 67.45
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3088	3088	3088
5°	3092	3085	3102
10°	3088	3091	3115
15°	3075	3094	3133
20°	3058	3091	3153
25°	3033	3085	3169
30°	2989	3069	3170
35°	2946	3039	3145
40°	2901	2991	3117
45°	2838	2927	3038
50°	2766	2845	2947
55°	2682	2749	2847
60°	2580	2613	2692
65°	2460	2460	2485
70°	2313	2270	2265
75°	2110	1984	1977
80°	1839	1651	1578
85°	1457	1144	895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.3	3.4
10°-20°	551.8	9.7
20°-30°	843.1	14.8
30°-40°	1017.1	17.9
40°-50°	1042.5	18.3
50°-60°	918.5	16.2
60°-70°	672.2	11.8
70°-80°	361.3	6.4
80°-90°	84.1	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°	1586.2	27.9
0°-40°	2603.3	45.8
0°-60°	4564.3	80.3
0°-90°	5682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2016	2016	2016	2016	2016	
5°	2011	2009	2007	2012	2017	191
15°	1939	1941	1951	1966	1976	547
25°	1795	1799	1825	1861	1875	826
35°	1575	1584	1625	1670	1682	986
45°	1310	1309	1352	1391	1402	1009
55°	1004	999	1029	1053	1066	896
65°	679	667	679	687	686	673
75°	356	340	335	335	334	378
85°	83	73	65	53	51	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2016.1	2016.1	2016.1	2016.1	2016.1
2.5°	2018.4	2014.9	2011.3	2014.9	2019.6
5°	2011.3	2009.0	2006.6	2012.5	2017.3
7.5°	2000.7	1998.3	1999.5	2007.8	2011.3
10°	1985.3	1985.3	1987.6	1997.1	2003.0
12.5°	1963.9	1965.1	1972.2	1984.1	1990.0
15°	1939.1	1941.4	1950.9	1966.3	1975.8
17.5°	1908.3	1914.2	1927.2	1946.2	1956.8
20°	1876.3	1879.8	1896.4	1923.7	1934.3
22.5°	1834.8	1841.9	1863.3	1895.2	1909.5
25°	1794.6	1799.3	1825.4	1860.9	1875.1
27.5°	1743.6	1750.7	1782.7	1824.2	1839.6
30°	1690.3	1698.6	1735.3	1775.6	1792.2
32.5°	1634.6	1645.3	1683.2	1725.9	1743.6
35°	1575.4	1583.7	1625.2	1670.2	1682.0
37.5°	1516.2	1518.6	1562.4	1606.2	1625.2
40°	1451.0	1453.4	1496.1	1537.5	1558.8
42.5°	1377.6	1384.7	1426.2	1466.4	1483.0
45°	1310.1	1308.9	1351.5	1390.6	1402.5
47.5°	1234.3	1236.6	1275.7	1313.6	1320.7
50°	1160.8	1159.7	1194.0	1227.2	1236.6
52.5°	1080.3	1079.1	1113.5	1140.7	1152.5
55°	1004.5	998.6	1029.4	1053.0	1066.1
57.5°	922.7	914.5	941.7	965.4	971.3
60°	842.2	832.7	852.9	870.6	878.9
62.5°	765.2	753.4	766.4	781.8	783.0
65°	678.7	666.9	678.7	687.0	685.8
67.5°	597.0	584.0	589.9	593.4	592.3
70°	516.5	498.7	507.0	504.6	505.8
72.5°	435.9	421.7	420.5	417.0	420.5
75°	356.5	340.0	335.2	335.2	334.0
77.5°	280.7	264.1	259.4	257.0	253.5
80°	208.5	195.4	187.2	186.0	178.9
82.5°	146.9	130.3	127.9	117.3	110.2
85°	82.9	73.4	65.1	53.3	50.9
87.5°	30.8	27.2	21.3	20.1	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)