

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: P229905

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229905
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-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: 6335.0 lumens
Efficiency: N/A
Efficacy: 93.9 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

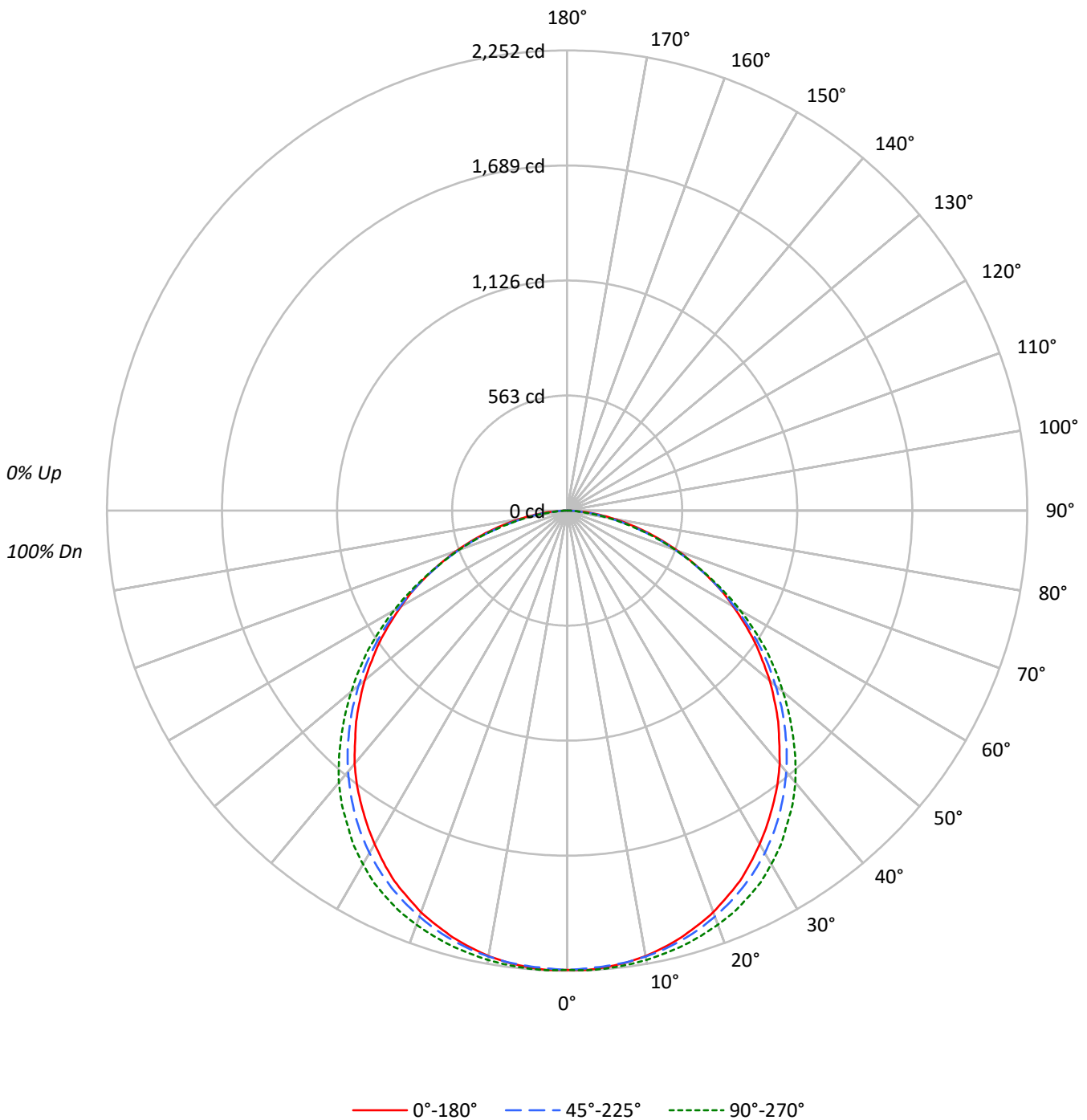
Input Watts (W): 67.45
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3443	3443	3443
5°	3448	3440	3458
10°	3442	3447	3473
15°	3428	3449	3493
20°	3410	3446	3515
25°	3381	3439	3533
30°	3333	3422	3534
35°	3284	3388	3506
40°	3235	3335	3475
45°	3164	3264	3387
50°	3084	3172	3285
55°	2991	3065	3174
60°	2876	2913	3002
65°	2742	2742	2771
70°	2579	2531	2525
75°	2352	2212	2204
80°	2050	1841	1759
85°	1624	1276	998



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.3	3.4
10°-20°	615.2	9.7
20°-30°	940.0	14.8
30°-40°	1134.0	17.9
40°-50°	1162.3	18.3
50°-60°	1024.1	16.2
60°-70°	749.5	11.8
70°-80°	402.8	6.4
80°-90°	93.8	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°	1768.5	27.9
0°-40°	2902.5	45.8
0°-60°	5088.9	80.3
0°-90°	6335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6335.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2248	2248	2248	2248	2248	
5°	2242	2240	2237	2244	2249	213
15°	2162	2165	2175	2192	2203	610
25°	2001	2006	2035	2075	2091	920
35°	1756	1766	1812	1862	1875	1099
45°	1461	1459	1507	1550	1564	1125
55°	1120	1113	1148	1174	1189	999
65°	757	744	757	766	765	750
75°	398	379	374	374	372	422
85°	92	82	73	59	57	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2247.8	2247.8	2247.8	2247.8	2247.8
2.5°	2250.4	2246.4	2242.5	2246.4	2251.7
5°	2242.5	2239.8	2237.2	2243.8	2249.1
7.5°	2230.6	2228.0	2229.3	2238.5	2242.5
10°	2213.4	2213.4	2216.1	2226.6	2233.2
12.5°	2189.7	2191.0	2198.9	2212.1	2218.7
15°	2161.9	2164.6	2175.1	2192.3	2202.9
17.5°	2127.6	2134.2	2148.7	2169.8	2181.7
20°	2091.9	2095.9	2114.4	2144.8	2156.6
22.5°	2045.7	2053.6	2077.4	2113.1	2128.9
25°	2000.8	2006.1	2035.1	2074.8	2090.6
27.5°	1944.0	1951.9	1987.6	2033.8	2051.0
30°	1884.6	1893.8	1934.8	1979.7	1998.2
32.5°	1822.5	1834.4	1876.7	1924.2	1944.0
35°	1756.5	1765.7	1811.9	1862.1	1875.3
37.5°	1690.4	1693.1	1741.9	1790.8	1811.9
40°	1617.8	1620.4	1668.0	1714.2	1738.0
42.5°	1535.9	1543.9	1590.1	1635.0	1653.5
45°	1460.6	1459.3	1506.9	1550.5	1563.7
47.5°	1376.1	1378.8	1422.4	1464.6	1472.5
50°	1294.2	1292.9	1331.2	1368.2	1378.8
52.5°	1204.4	1203.1	1241.4	1271.8	1285.0
55°	1119.9	1113.3	1147.7	1174.1	1188.6
57.5°	1028.8	1019.5	1049.9	1076.3	1082.9
60°	939.0	928.4	950.9	970.7	979.9
62.5°	853.1	839.9	854.5	871.6	873.0
65°	756.7	743.5	756.7	766.0	764.7
67.5°	665.6	651.1	657.7	661.7	660.3
70°	575.8	556.0	565.2	562.6	563.9
72.5°	486.0	470.2	468.8	464.9	468.8
75°	397.5	379.0	373.7	373.7	372.4
77.5°	313.0	294.5	289.2	286.6	282.6
80°	232.4	217.9	208.7	207.3	199.4
82.5°	163.8	145.3	142.6	130.7	122.8
85°	92.4	81.9	72.6	59.4	56.8
87.5°	34.3	30.4	23.8	22.5	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)