

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: P229885

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36062)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-80-UNV-L935-CD1-SVPD1-U
Description: METALUX 2X4 RLN LED TROFFER WITH SENSOR
Light Source: (252)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6852.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

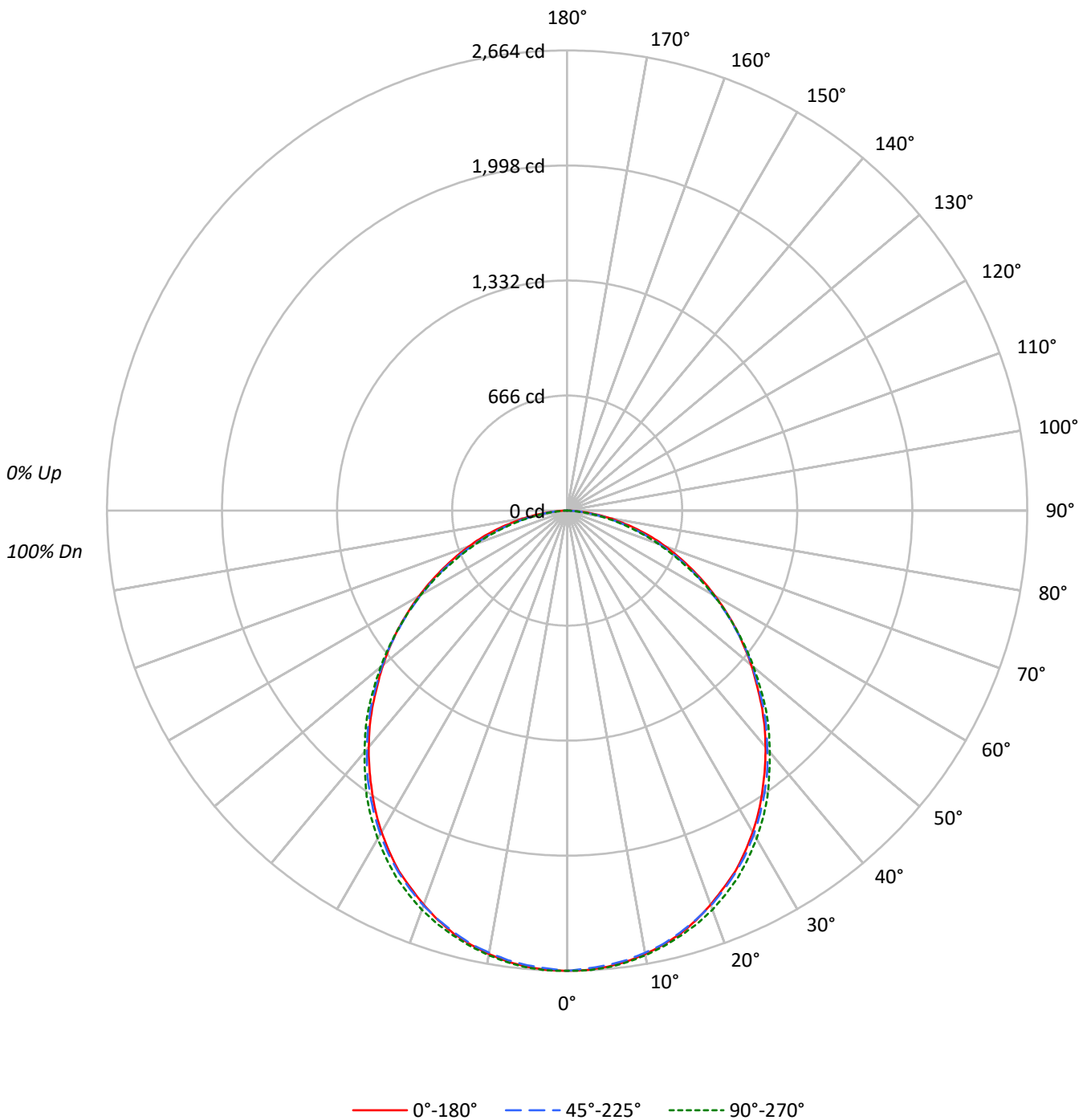
Input Watts (W): 67.45
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4081	4081	4081
5°	4076	4063	4083
10°	4055	4042	4066
15°	4021	4010	4038
20°	3958	3966	4008
25°	3894	3905	3957
30°	3801	3824	3878
35°	3688	3725	3782
40°	3573	3604	3647
45°	3446	3479	3526
50°	3317	3333	3359
55°	3187	3170	3181
60°	3035	2988	3001
65°	2863	2799	2752
70°	2707	2560	2502
75°	2492	2272	2195
80°	2194	1925	1809
85°	1726	1343	996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.5	3.7
10°-20°	715.0	10.4
20°-30°	1065.7	15.6
30°-40°	1245.8	18.2
40°-50°	1237.2	18.1
50°-60°	1062.4	15.5
60°-70°	765.3	11.2
70°-80°	412.1	6.0
80°-90°	97.2	1.4
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°	2032.1	29.7
0°-40°	3277.9	47.8
0°-60°	5577.5	81.4
0°-90°	6852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2664	2664	2664	2664	2664	
5°	2651	2649	2642	2651	2656	252
15°	2536	2529	2529	2544	2546	714
25°	2304	2295	2311	2335	2341	1059
35°	1972	1970	1992	2014	2023	1234
45°	1591	1586	1606	1619	1628	1227
55°	1194	1183	1187	1194	1191	1066
65°	790	777	772	766	759	785
75°	421	395	384	373	371	446
85°	98	90	76	61	57	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2664.2	2664.2	2664.2	2664.2	2664.2
2.5°	2662.0	2659.8	2653.3	2662.0	2664.2
5°	2651.1	2648.9	2642.4	2651.1	2655.5
7.5°	2633.6	2629.3	2624.9	2633.6	2638.0
10°	2607.5	2603.1	2598.7	2609.6	2614.0
12.5°	2574.7	2570.4	2570.4	2579.1	2583.5
15°	2535.5	2528.9	2528.9	2544.2	2546.4
17.5°	2485.3	2480.9	2483.1	2500.5	2507.1
20°	2428.5	2426.4	2432.9	2452.5	2459.1
22.5°	2365.3	2363.1	2374.0	2398.0	2402.4
25°	2304.2	2295.4	2310.7	2334.7	2341.3
27.5°	2227.8	2221.2	2240.9	2262.7	2269.3
30°	2149.2	2142.7	2162.3	2186.3	2192.9
32.5°	2064.1	2059.8	2079.4	2103.4	2110.0
35°	1972.5	1970.3	1992.1	2014.0	2022.7
37.5°	1880.9	1878.7	1902.7	1920.1	1922.3
40°	1787.0	1782.7	1802.3	1821.9	1824.1
42.5°	1691.0	1684.5	1706.3	1721.6	1728.1
45°	1590.7	1586.3	1605.9	1619.0	1627.8
47.5°	1488.1	1488.1	1499.0	1514.3	1516.5
50°	1392.1	1385.6	1398.6	1407.4	1409.6
52.5°	1291.7	1285.2	1296.1	1298.3	1302.6
55°	1193.5	1182.6	1187.0	1193.5	1191.4
57.5°	1091.0	1073.5	1082.3	1082.3	1086.6
60°	990.6	975.3	975.3	975.3	979.7
62.5°	890.2	875.0	875.0	872.8	870.6
65°	789.9	776.8	772.4	765.9	759.3
67.5°	693.9	678.6	669.9	661.1	654.6
70°	604.4	578.2	571.7	558.6	558.6
72.5°	514.9	488.8	475.7	466.9	464.8
75°	421.1	394.9	384.0	373.1	370.9
77.5°	329.5	312.0	294.6	285.8	281.5
80°	248.7	233.5	218.2	202.9	205.1
82.5°	170.2	154.9	144.0	130.9	126.6
85°	98.2	89.5	76.4	61.1	56.7
87.5°	41.5	30.5	21.8	21.8	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)