

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: P295859

Luminaire Tested: **24RLN-LD5-80-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-80-UNV-L83050-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8063.0 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

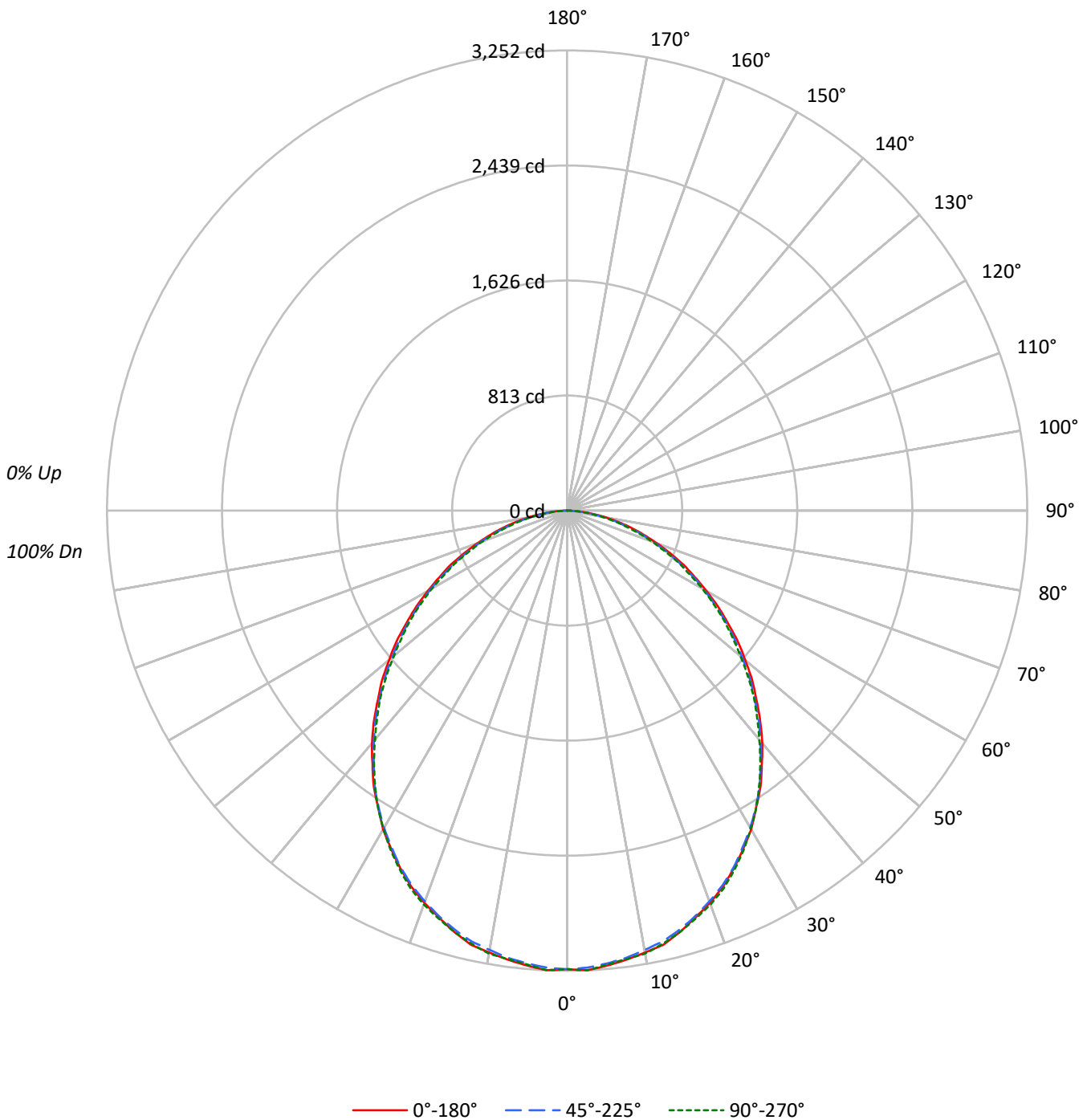
Input Watts (W): 60.729
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4361	4361	4361
5°	4360	4339	4349
10°	4332	4307	4343
15°	4294	4272	4294
20°	4224	4209	4242
25°	4140	4132	4155
30°	4041	4021	4033
35°	3914	3897	3888
40°	3769	3733	3710
45°	3598	3564	3549
50°	3436	3381	3343
55°	3252	3203	3173
60°	3059	3003	2968
65°	2890	2783	2758
70°	2650	2548	2497
75°	2434	2285	2191
80°	2136	1995	1874
85°	1727	1606	1365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.8	3.8
10°-20°	866.9	10.8
20°-30°	1282.4	15.9
30°-40°	1480.0	18.4
40°-50°	1445.5	17.9
50°-60°	1220.6	15.1
60°-70°	869.4	10.8
70°-80°	470.8	5.8
80°-90°	121.5	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°	2455.2	30.4
0°-40°	3935.2	48.8
0°-60°	6601.3	81.9
0°-90°	8063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8063.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3241	3241	3241	3241	3241	
5°	3228	3228	3212	3220	3220	306
15°	3082	3069	3067	3080	3082	868
25°	2788	2773	2783	2794	2799	1284
35°	2383	2364	2372	2364	2367	1487
45°	1891	1876	1873	1865	1865	1462
55°	1386	1368	1366	1353	1353	1243
65°	908	890	874	864	866	895
75°	468	453	440	429	421	496
85°	112	109	104	91	88	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3241.1	3241.1	3241.1	3241.1	3241.1
2.5°	3251.5	3238.5	3233.3	3235.9	3251.5
5°	3228.1	3228.1	3212.5	3220.3	3220.3
7.5°	3202.1	3204.7	3189.1	3202.1	3196.9
10°	3170.9	3163.1	3152.7	3173.5	3178.7
12.5°	3142.3	3124.0	3118.8	3131.8	3134.4
15°	3082.4	3069.4	3066.8	3079.8	3082.4
17.5°	3014.8	3017.4	3007.0	3025.2	3022.6
20°	2949.8	2944.6	2939.4	2960.2	2962.8
22.5°	2876.9	2861.3	2866.5	2884.7	2889.9
25°	2788.5	2772.9	2783.3	2793.7	2798.9
27.5°	2694.8	2687.0	2684.4	2697.4	2702.6
30°	2601.2	2588.2	2588.2	2603.8	2596.0
32.5°	2486.7	2476.3	2481.5	2486.7	2489.3
35°	2382.7	2364.5	2372.3	2364.5	2367.1
37.5°	2260.4	2247.4	2244.8	2242.2	2242.2
40°	2146.0	2135.6	2125.2	2125.2	2112.2
42.5°	2021.1	2008.1	2002.9	1995.1	1987.3
45°	1891.1	1875.5	1872.9	1865.1	1865.1
47.5°	1774.0	1750.6	1748.0	1732.4	1732.4
50°	1641.4	1625.8	1615.3	1604.9	1597.1
52.5°	1521.7	1506.1	1490.5	1480.1	1472.3
55°	1386.4	1368.2	1365.6	1352.6	1352.6
57.5°	1264.2	1248.6	1238.2	1222.6	1225.2
60°	1136.7	1121.1	1115.9	1102.9	1102.9
62.5°	1017.1	1004.1	996.3	983.3	972.8
65°	907.8	889.6	874.0	863.6	866.2
67.5°	788.2	767.4	759.6	749.1	741.3
70°	673.7	660.7	647.7	634.7	634.7
72.5°	567.1	554.1	546.3	530.6	525.4
75°	468.2	452.6	439.6	429.2	421.4
77.5°	369.4	353.8	346.0	333.0	333.0
80°	275.7	265.3	257.5	252.3	241.9
82.5°	189.9	184.7	176.9	169.1	161.3
85°	111.9	109.3	104.0	91.0	88.4
87.5°	44.2	44.2	39.0	36.4	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)