

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: P295861

Luminaire Tested: **24RLN-LD5-80-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295861
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-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8547.0 lumens
Efficiency: N/A
Efficacy: 134.2 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

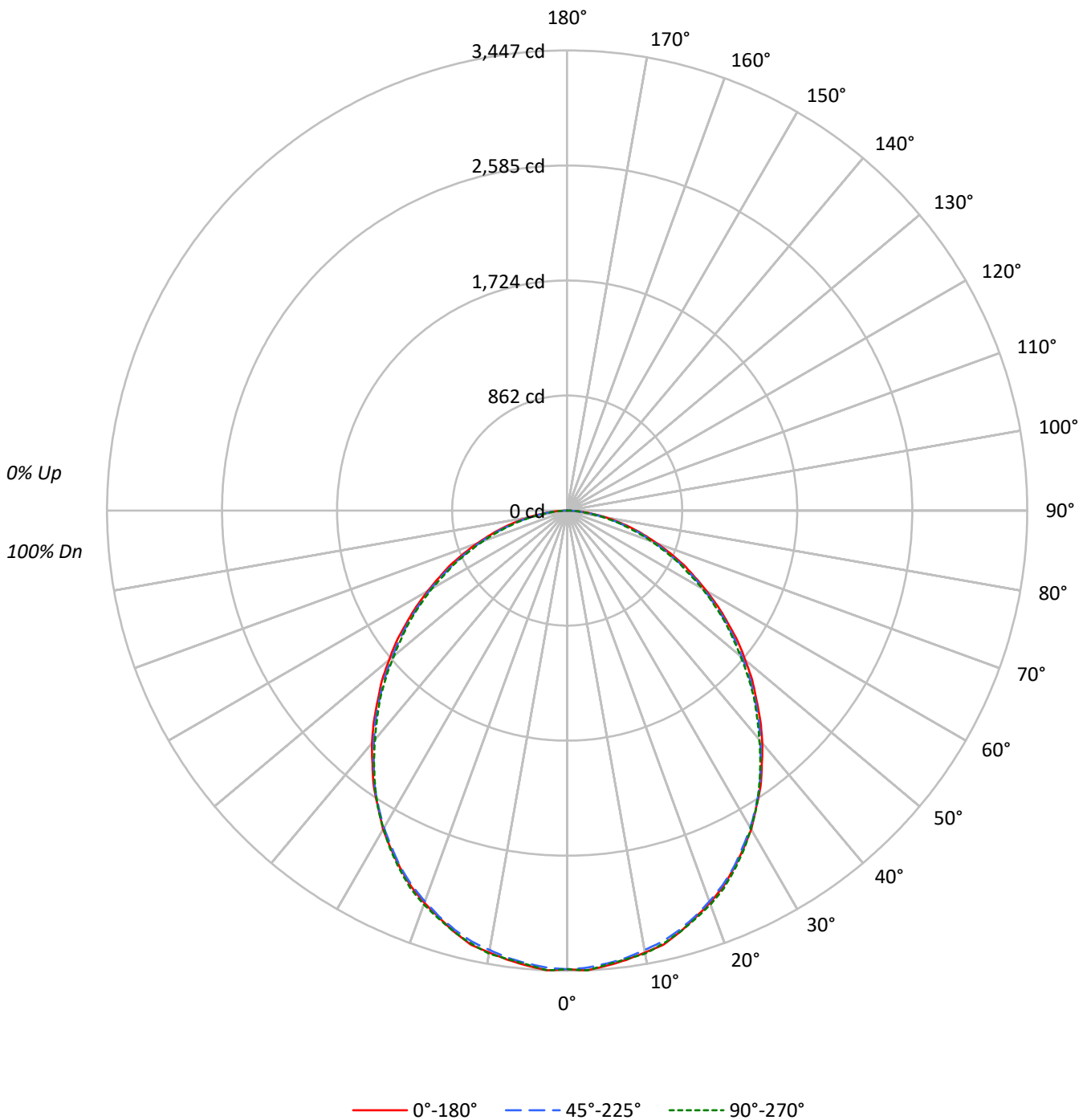
Input Watts (W): 63.705
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4623	4623	4623
5°	4622	4599	4611
10°	4592	4566	4604
15°	4551	4528	4551
20°	4477	4461	4497
25°	4388	4380	4405
30°	4284	4263	4275
35°	4149	4130	4121
40°	3995	3957	3933
45°	3814	3778	3762
50°	3642	3584	3544
55°	3448	3396	3363
60°	3243	3183	3146
65°	3064	2950	2923
70°	2810	2701	2647
75°	2580	2423	2322
80°	2265	2115	1987
85°	1831	1703	1447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.2	3.8
10°-20°	919.0	10.8
20°-30°	1359.4	15.9
30°-40°	1568.9	18.4
40°-50°	1532.3	17.9
50°-60°	1293.9	15.1
60°-70°	921.6	10.8
70°-80°	499.0	5.8
80°-90°	128.8	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°	2602.5	30.4
0°-40°	4171.4	48.8
0°-60°	6997.6	81.9
0°-90°	8547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8547.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3436	3436	3436	3436	3436	
5°	3422	3422	3405	3414	3414	325
15°	3268	3254	3251	3265	3268	920
25°	2956	2939	2950	2961	2967	1361
35°	2526	2506	2515	2506	2509	1576
45°	2005	1988	1985	1977	1977	1550
55°	1470	1450	1448	1434	1434	1318
65°	962	943	926	915	918	949
75°	496	480	466	455	447	525
85°	119	116	110	96	94	140
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3435.7	3435.7	3435.7	3435.7	3435.7
2.5°	3446.7	3432.9	3427.4	3430.1	3446.7
5°	3421.9	3421.9	3405.3	3413.6	3413.6
7.5°	3394.3	3397.0	3380.5	3394.3	3388.8
10°	3361.2	3352.9	3341.9	3364.0	3369.5
12.5°	3330.9	3311.6	3306.1	3319.8	3322.6
15°	3267.5	3253.7	3250.9	3264.7	3267.5
17.5°	3195.8	3198.5	3187.5	3206.8	3204.0
20°	3126.8	3121.3	3115.8	3137.9	3140.6
22.5°	3049.6	3033.1	3038.6	3057.9	3063.4
25°	2955.9	2939.3	2950.4	2961.4	2966.9
27.5°	2856.6	2848.3	2845.6	2859.4	2864.9
30°	2757.3	2743.6	2743.6	2760.1	2751.8
32.5°	2636.0	2625.0	2630.5	2636.0	2638.8
35°	2525.7	2506.4	2514.7	2506.4	2509.2
37.5°	2396.1	2382.3	2379.6	2376.8	2376.8
40°	2274.8	2263.8	2252.8	2252.8	2239.0
42.5°	2142.5	2128.7	2123.2	2114.9	2106.6
45°	2004.6	1988.0	1985.3	1977.0	1977.0
47.5°	1880.5	1855.7	1852.9	1836.4	1836.4
50°	1739.9	1723.3	1712.3	1701.3	1693.0
52.5°	1613.0	1596.5	1580.0	1568.9	1560.7
55°	1469.7	1450.4	1447.6	1433.8	1433.8
57.5°	1340.1	1323.5	1312.5	1296.0	1298.7
60°	1205.0	1188.4	1182.9	1169.1	1169.1
62.5°	1078.1	1064.3	1056.1	1042.3	1031.2
65°	962.3	943.0	926.5	915.4	918.2
67.5°	835.5	813.4	805.1	794.1	785.8
70°	714.2	700.4	686.6	672.8	672.8
72.5°	601.1	587.3	579.0	562.5	557.0
75°	496.3	479.8	466.0	455.0	446.7
77.5°	391.5	375.0	366.7	352.9	352.9
80°	292.3	281.2	273.0	267.5	256.4
82.5°	201.3	195.8	187.5	179.2	171.0
85°	118.6	115.8	110.3	96.5	93.7
87.5°	46.9	46.9	41.4	38.6	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)