

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: P295937

Luminaire Tested: **24RLN-LD5-74-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295937
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-LD5-74-UNV-L82765-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: 7261.0 lumens
Efficiency: N/A
Efficacy: 131.2 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

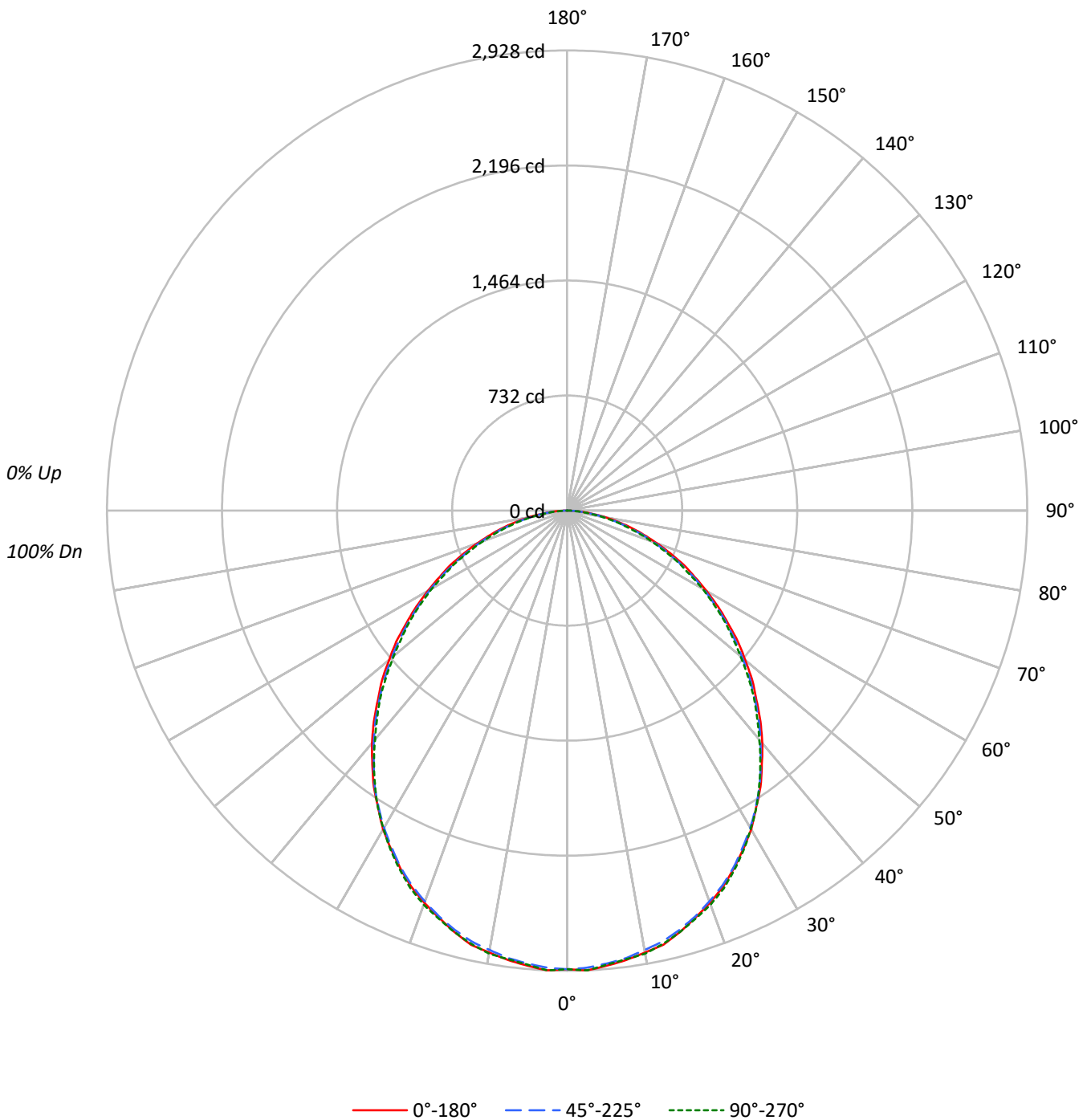
Input Watts (W): 55.335
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3927	3927	3927
5°	3926	3907	3917
10°	3901	3879	3911
15°	3867	3847	3867
20°	3804	3790	3820
25°	3728	3721	3742
30°	3639	3621	3632
35°	3524	3509	3501
40°	3394	3361	3341
45°	3240	3209	3196
50°	3094	3045	3011
55°	2929	2885	2857
60°	2755	2704	2673
65°	2603	2506	2483
70°	2387	2295	2249
75°	2192	2058	1973
80°	1924	1797	1688
85°	1555	1447	1229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.4	3.8
10°-20°	780.7	10.8
20°-30°	1154.8	15.9
30°-40°	1332.8	18.4
40°-50°	1301.7	17.9
50°-60°	1099.2	15.1
60°-70°	783.0	10.8
70°-80°	423.9	5.8
80°-90°	109.4	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°	2210.9	30.4
0°-40°	3543.8	48.8
0°-60°	5944.7	81.9
0°-90°	7261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2919	2919	2919	2919	2919	
5°	2907	2907	2893	2900	2900	276
15°	2776	2764	2762	2774	2776	782
25°	2511	2497	2506	2516	2520	1156
35°	2146	2129	2136	2129	2132	1339
45°	1703	1689	1687	1680	1680	1317
55°	1248	1232	1230	1218	1218	1119
65°	818	801	787	778	780	806
75°	422	408	396	386	380	446
85°	101	98	94	82	80	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2918.7	2918.7	2918.7	2918.7	2918.7
2.5°	2928.1	2916.4	2911.7	2914.0	2928.1
5°	2907.0	2907.0	2892.9	2900.0	2900.0
7.5°	2883.6	2885.9	2871.9	2883.6	2878.9
10°	2855.5	2848.4	2839.1	2857.8	2862.5
12.5°	2829.7	2813.3	2808.6	2820.3	2822.7
15°	2775.8	2764.1	2761.8	2773.5	2775.8
17.5°	2714.9	2717.3	2707.9	2724.3	2721.9
20°	2656.4	2651.7	2647.0	2665.7	2668.1
22.5°	2590.8	2576.7	2581.4	2597.8	2602.5
25°	2511.1	2497.1	2506.4	2515.8	2520.5
27.5°	2426.8	2419.8	2417.4	2429.1	2433.8
30°	2342.5	2330.8	2330.8	2344.8	2337.8
32.5°	2239.4	2230.0	2234.7	2239.4	2241.7
35°	2145.7	2129.3	2136.3	2129.3	2131.6
37.5°	2035.6	2023.9	2021.6	2019.2	2019.2
40°	1932.5	1923.2	1913.8	1913.8	1902.1
42.5°	1820.1	1808.4	1803.7	1796.7	1789.6
45°	1703.0	1688.9	1686.6	1679.5	1679.5
47.5°	1597.6	1576.5	1574.1	1560.1	1560.1
50°	1478.1	1464.0	1454.7	1445.3	1438.3
52.5°	1370.3	1356.3	1342.2	1332.9	1325.8
55°	1248.5	1232.1	1229.8	1218.1	1218.1
57.5°	1138.4	1124.4	1115.0	1101.0	1103.3
60°	1023.7	1009.6	1004.9	993.2	993.2
62.5°	915.9	904.2	897.2	885.5	876.1
65°	817.5	801.1	787.1	777.7	780.0
67.5°	709.8	691.0	684.0	674.6	667.6
70°	606.7	595.0	583.3	571.6	571.6
72.5°	510.7	498.9	491.9	477.9	473.2
75°	421.6	407.6	395.9	386.5	379.5
77.5°	332.6	318.6	311.5	299.8	299.8
80°	248.3	238.9	231.9	227.2	217.8
82.5°	171.0	166.3	159.3	152.3	145.2
85°	100.7	98.4	93.7	82.0	79.6
87.5°	39.8	39.8	35.1	32.8	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)