

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: P295998

Luminaire Tested: **24RLN-LD5-80-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295998
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-L93050-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6273.0 lumens
Efficiency: N/A
Efficacy: 101.0 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

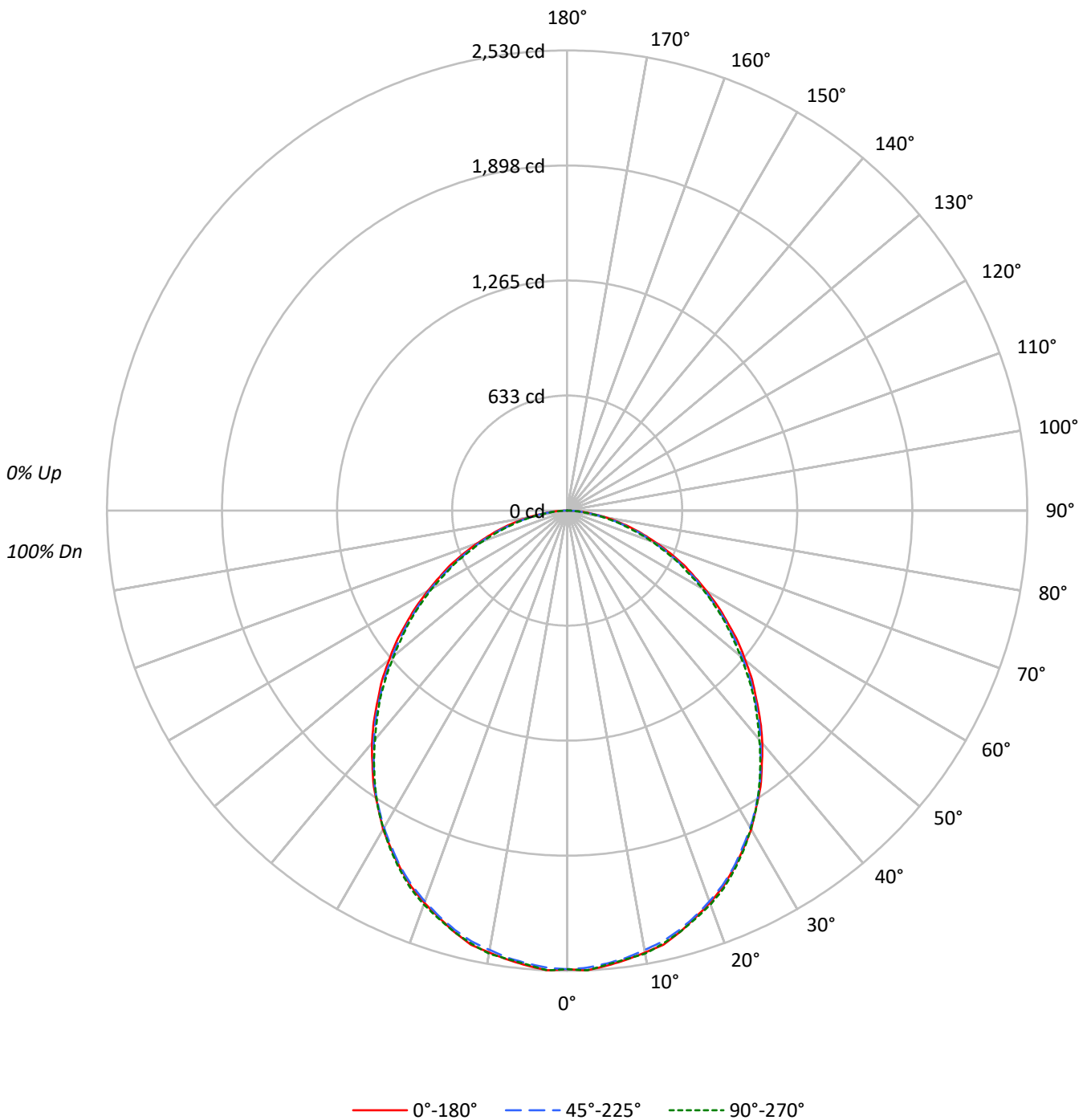
Input Watts (W): 62.124
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3393	3393	3393
5°	3392	3376	3384
10°	3370	3351	3379
15°	3340	3324	3340
20°	3286	3274	3300
25°	3221	3215	3233
30°	3144	3128	3138
35°	3045	3031	3025
40°	2933	2904	2886
45°	2800	2773	2761
50°	2673	2631	2601
55°	2530	2492	2468
60°	2380	2336	2309
65°	2249	2165	2145
70°	2062	1982	1943
75°	1894	1778	1704
80°	1662	1552	1458
85°	1343	1249	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.9	3.8
10°-20°	674.5	10.8
20°-30°	997.7	15.9
30°-40°	1151.5	18.4
40°-50°	1124.6	17.9
50°-60°	949.7	15.1
60°-70°	676.4	10.8
70°-80°	366.2	5.8
80°-90°	94.5	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°	1910.1	30.4
0°-40°	3061.6	48.8
0°-60°	5135.8	81.9
0°-90°	6273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2522	2522	2522	2522	2522	
5°	2511	2511	2499	2505	2505	238
15°	2398	2388	2386	2396	2398	676
25°	2169	2157	2165	2174	2178	999
35°	1854	1840	1846	1840	1842	1157
45°	1471	1459	1457	1451	1451	1138
55°	1079	1064	1062	1052	1052	967
65°	706	692	680	672	674	696
75°	364	352	342	334	328	386
85°	87	85	81	71	69	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2521.6	2521.6	2521.6	2521.6	2521.6
2.5°	2529.7	2519.5	2515.5	2517.5	2529.7
5°	2511.4	2511.4	2499.3	2505.4	2505.4
7.5°	2491.2	2493.2	2481.1	2491.2	2487.2
10°	2466.9	2460.9	2452.8	2469.0	2473.0
12.5°	2444.7	2430.5	2426.5	2436.6	2438.6
15°	2398.1	2388.0	2386.0	2396.1	2398.1
17.5°	2345.5	2347.5	2339.4	2353.6	2351.6
20°	2294.9	2290.9	2286.8	2303.0	2305.0
22.5°	2238.2	2226.1	2230.2	2244.3	2248.4
25°	2169.4	2157.3	2165.4	2173.5	2177.5
27.5°	2096.6	2090.5	2088.5	2098.6	2102.7
30°	2023.7	2013.6	2013.6	2025.8	2019.7
32.5°	1934.7	1926.6	1930.6	1934.7	1936.7
35°	1853.7	1839.6	1845.6	1839.6	1841.6
37.5°	1758.6	1748.5	1746.5	1744.5	1744.5
40°	1669.6	1661.5	1653.4	1653.4	1643.3
42.5°	1572.4	1562.3	1558.3	1552.2	1546.1
45°	1471.3	1459.1	1457.1	1451.0	1451.0
47.5°	1380.2	1362.0	1359.9	1347.8	1347.8
50°	1277.0	1264.8	1256.7	1248.6	1242.6
52.5°	1183.9	1171.7	1159.6	1151.5	1145.4
55°	1078.6	1064.5	1062.5	1052.3	1052.3
57.5°	983.5	971.4	963.3	951.2	953.2
60°	884.4	872.2	868.2	858.1	858.1
62.5°	791.3	781.2	775.1	765.0	756.9
65°	706.3	692.1	680.0	671.9	673.9
67.5°	613.2	597.0	590.9	582.8	576.8
70°	524.1	514.0	503.9	493.8	493.8
72.5°	441.2	431.1	425.0	412.8	408.8
75°	364.3	352.1	342.0	333.9	327.8
77.5°	287.4	275.2	269.2	259.0	259.0
80°	214.5	206.4	200.3	196.3	188.2
82.5°	147.7	143.7	137.6	131.5	125.5
85°	87.0	85.0	80.9	70.8	68.8
87.5°	34.4	34.4	30.4	28.3	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)