

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: P296000

Luminaire Tested: **24RLN-LD5-80-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296000
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-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7402.0 lumens
Efficiency: N/A
Efficacy: 118.8 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

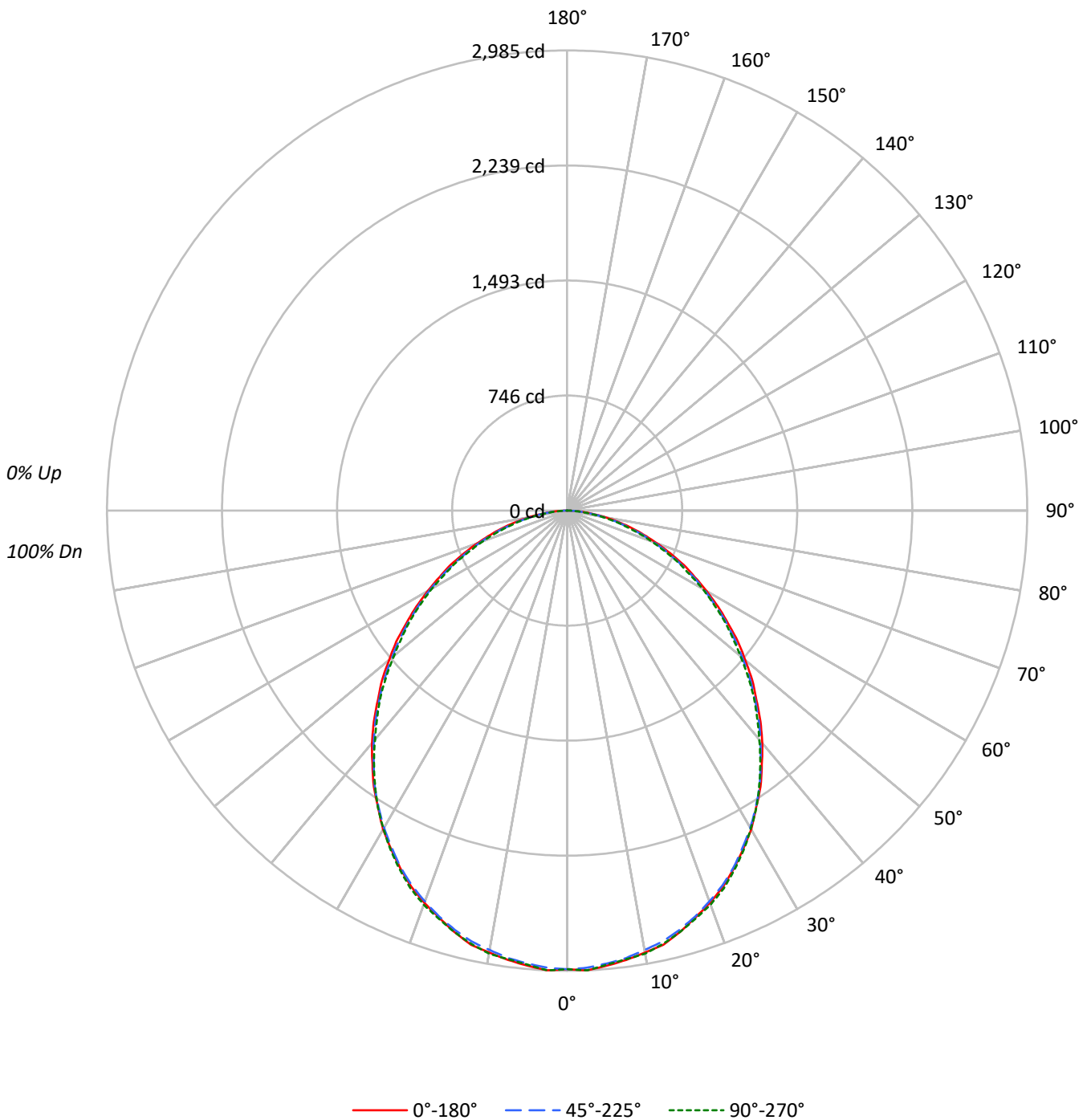
Input Watts (W): 62.31
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4003	4003	4003
5°	4003	3983	3993
10°	3977	3954	3987
15°	3942	3922	3942
20°	3877	3864	3894
25°	3800	3793	3814
30°	3710	3691	3703
35°	3593	3577	3569
40°	3460	3427	3406
45°	3303	3272	3258
50°	3154	3104	3069
55°	2986	2941	2913
60°	2808	2757	2725
65°	2653	2555	2532
70°	2433	2339	2292
75°	2234	2098	2011
80°	1961	1832	1721
85°	1585	1474	1254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.7	3.8
10°-20°	795.9	10.8
20°-30°	1177.3	15.9
30°-40°	1358.7	18.4
40°-50°	1327.0	17.9
50°-60°	1120.6	15.1
60°-70°	798.2	10.8
70°-80°	432.2	5.8
80°-90°	111.5	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°	2253.9	30.4
0°-40°	3612.6	48.8
0°-60°	6060.2	81.9
0°-90°	7402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7402.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2975	2975	2975	2975	2975	
5°	2964	2964	2949	2956	2956	281
15°	2830	2818	2815	2827	2830	797
25°	2560	2546	2555	2565	2569	1179
35°	2187	2171	2178	2171	2173	1365
45°	1736	1722	1719	1712	1712	1342
55°	1273	1256	1254	1242	1242	1141
65°	833	817	802	793	795	822
75°	430	416	404	394	387	455
85°	103	100	96	84	81	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2975.4	2975.4	2975.4	2975.4	2975.4
2.5°	2984.9	2973.0	2968.2	2970.6	2984.9
5°	2963.5	2963.5	2949.1	2956.3	2956.3
7.5°	2939.6	2942.0	2927.6	2939.6	2934.8
10°	2910.9	2903.8	2894.2	2913.3	2918.1
12.5°	2884.7	2867.9	2863.2	2875.1	2877.5
15°	2829.7	2817.8	2815.4	2827.3	2829.7
17.5°	2767.6	2770.0	2760.5	2777.2	2774.8
20°	2707.9	2703.2	2698.4	2717.5	2719.9
22.5°	2641.1	2626.8	2631.5	2648.2	2653.0
25°	2559.9	2545.6	2555.1	2564.7	2569.4
27.5°	2473.9	2466.8	2464.4	2476.3	2481.1
30°	2388.0	2376.0	2376.0	2390.3	2383.2
32.5°	2282.9	2273.3	2278.1	2282.9	2285.3
35°	2187.4	2170.7	2177.8	2170.7	2173.0
37.5°	2075.1	2063.2	2060.8	2058.4	2058.4
40°	1970.1	1960.5	1951.0	1951.0	1939.0
42.5°	1855.4	1843.5	1838.7	1831.6	1824.4
45°	1736.0	1721.7	1719.3	1712.2	1712.2
47.5°	1628.6	1607.1	1604.7	1590.4	1590.4
50°	1506.8	1492.5	1482.9	1473.4	1466.2
52.5°	1397.0	1382.6	1368.3	1358.7	1351.6
55°	1272.8	1256.1	1253.7	1241.7	1241.7
57.5°	1160.5	1146.2	1136.7	1122.3	1124.7
60°	1043.5	1029.2	1024.4	1012.5	1012.5
62.5°	933.7	921.8	914.6	902.6	893.1
65°	833.4	816.7	802.4	792.8	795.2
67.5°	723.6	704.4	697.3	687.7	680.6
70°	618.5	606.5	594.6	582.7	582.7
72.5°	520.6	508.6	501.5	487.1	482.4
75°	429.8	415.5	403.6	394.0	386.8
77.5°	339.1	324.8	317.6	305.7	305.7
80°	253.1	243.6	236.4	231.6	222.1
82.5°	174.3	169.5	162.4	155.2	148.1
85°	102.7	100.3	95.5	83.6	81.2
87.5°	40.6	40.6	35.8	33.4	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)