

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: P296228

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-80-RDP-UNV-L82765-W2A1-U-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6792.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

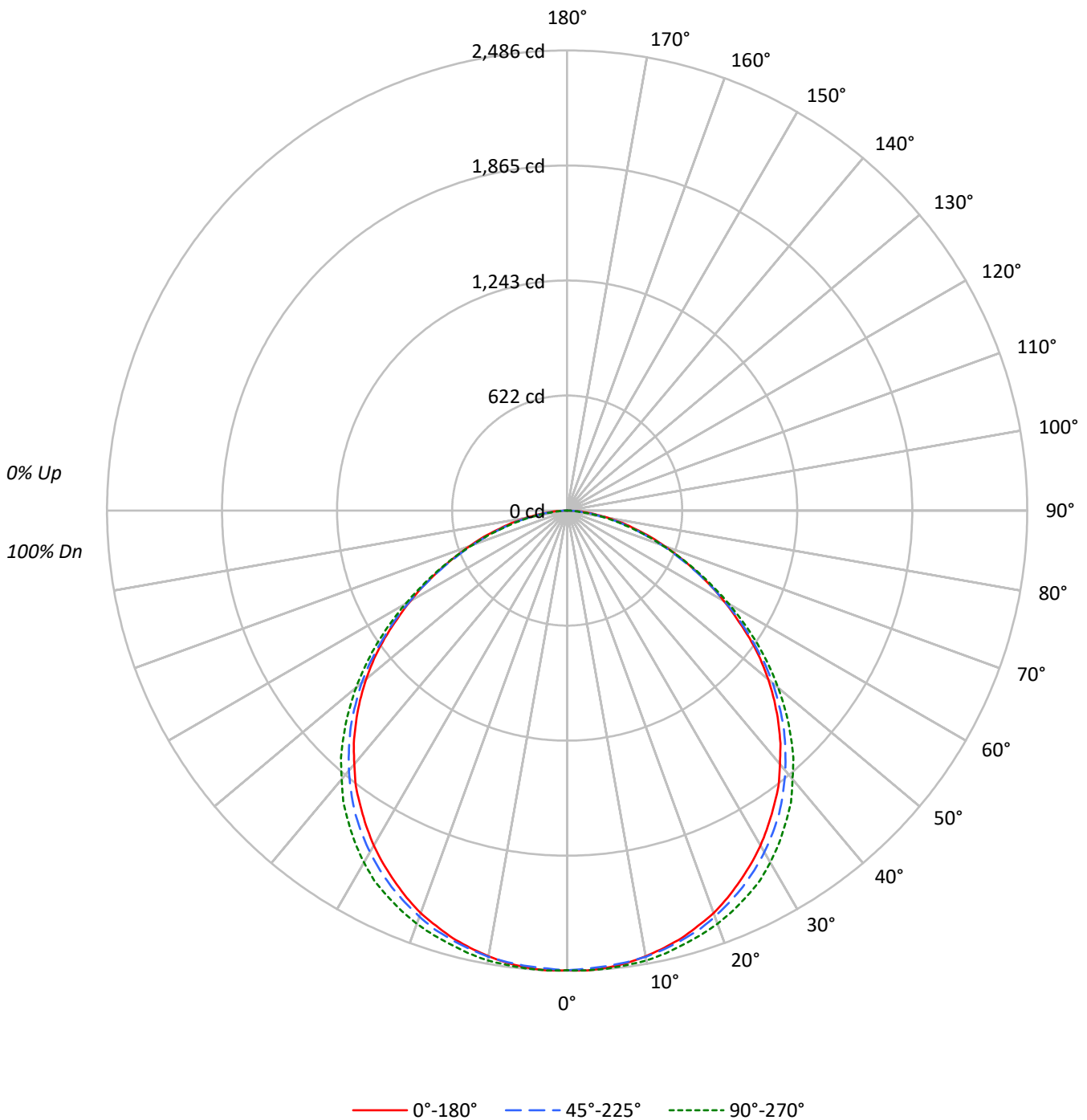
Input Watts (W): 61.845
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3342	3342	3342
5°	3348	3337	3355
10°	3341	3344	3372
15°	3331	3345	3381
20°	3313	3342	3401
25°	3278	3332	3412
30°	3246	3311	3411
35°	3200	3280	3381
40°	3141	3222	3326
45°	3069	3148	3246
50°	2966	3036	3117
55°	2823	2859	2943
60°	2635	2649	2718
65°	2420	2403	2461
70°	2199	2139	2149
75°	1956	1849	1835
80°	1697	1517	1478
85°	1392	1074	835



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.6	3.5
10°-20°	679.1	10.0
20°-30°	1036.6	15.3
30°-40°	1249.7	18.4
40°-50°	1274.4	18.8
50°-60°	1090.6	16.1
60°-70°	751.3	11.1
70°-80°	385.1	5.7
80°-90°	89.6	1.3
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°	1951.2	28.7
0°-40°	3200.9	47.1
0°-60°	5565.9	81.9
0°-90°	6792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6792.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2484	2484	2484	2484	2484	
5°	2479	2474	2471	2479	2484	236
15°	2391	2388	2401	2419	2427	674
25°	2208	2216	2244	2283	2298	1018
35°	1948	1956	1997	2041	2059	1219
45°	1613	1616	1654	1695	1706	1243
55°	1203	1196	1219	1244	1255	1073
65°	760	742	755	760	773	755
75°	376	361	356	356	353	406
85°	90	80	70	62	54	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2483.9	2483.9	2483.9	2483.9	2483.9
2.5°	2486.4	2481.3	2476.1	2481.3	2486.4
5°	2478.7	2473.6	2471.0	2478.7	2483.9
7.5°	2465.8	2460.7	2460.7	2471.0	2476.1
10°	2445.2	2442.6	2447.8	2458.1	2468.4
12.5°	2419.4	2419.4	2427.2	2440.1	2450.4
15°	2391.1	2388.5	2401.4	2419.4	2427.2
17.5°	2352.5	2355.0	2373.1	2393.7	2404.0
20°	2313.8	2316.4	2334.4	2362.8	2375.6
22.5°	2264.8	2270.0	2290.6	2326.7	2339.6
25°	2208.2	2215.9	2244.2	2282.9	2298.3
27.5°	2151.5	2159.2	2190.1	2233.9	2254.5
30°	2089.6	2099.9	2130.9	2177.2	2195.3
32.5°	2020.1	2027.8	2066.4	2112.8	2130.9
35°	1947.9	1955.7	1996.9	2040.7	2058.7
37.5°	1875.8	1875.8	1917.0	1968.5	1986.6
40°	1788.2	1790.7	1834.6	1883.5	1893.8
42.5°	1705.7	1705.7	1744.4	1790.7	1808.8
45°	1613.0	1615.5	1654.2	1695.4	1705.7
47.5°	1517.6	1517.6	1551.1	1589.8	1600.1
50°	1417.1	1412.0	1450.6	1481.6	1489.3
52.5°	1314.1	1306.3	1337.3	1363.0	1373.3
55°	1203.3	1195.6	1218.7	1244.5	1254.8
57.5°	1087.3	1077.0	1102.8	1126.0	1131.1
60°	979.1	963.7	984.3	997.2	1010.0
62.5°	870.9	852.9	868.3	876.1	886.4
65°	760.1	742.1	754.9	760.1	773.0
67.5°	654.5	641.6	644.2	651.9	657.0
70°	559.1	543.7	543.7	543.7	546.2
72.5°	471.5	448.3	445.8	448.3	448.3
75°	376.2	360.7	355.6	355.6	353.0
77.5°	301.5	280.9	278.3	273.1	268.0
80°	219.0	201.0	195.8	193.2	190.7
82.5°	152.0	136.6	131.4	126.3	118.5
85°	90.2	79.9	69.6	61.8	54.1
87.5°	33.5	30.9	25.8	23.2	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)