

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: P296225

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296225
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-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6312.0 lumens
Efficiency: N/A
Efficacy: 104.7 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

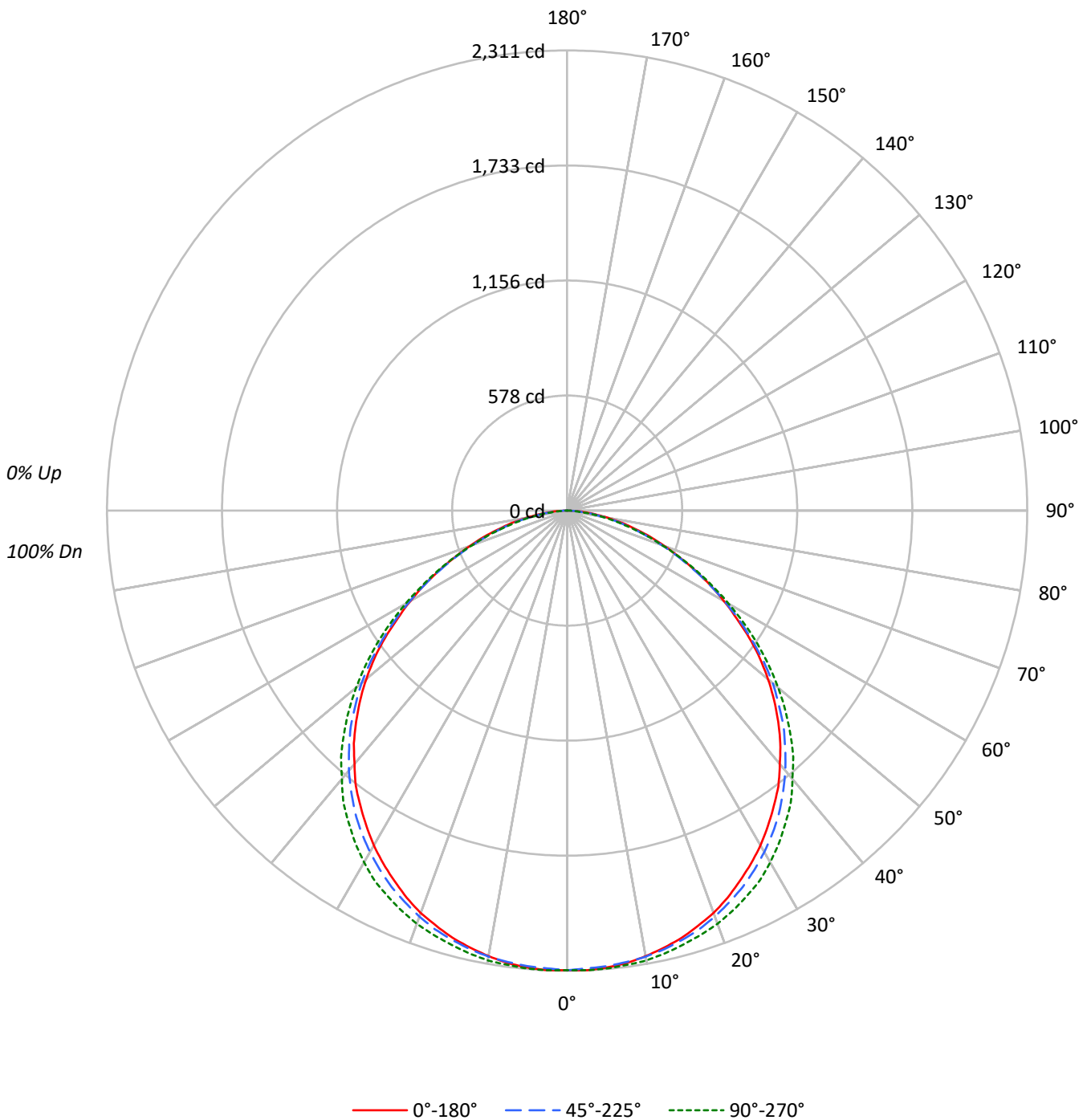
Input Watts (W): 60.264
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3106	3106	3106
5°	3111	3101	3118
10°	3105	3108	3134
15°	3095	3109	3142
20°	3079	3106	3161
25°	3047	3096	3171
30°	3017	3077	3170
35°	2973	3048	3143
40°	2919	2995	3091
45°	2852	2925	3016
50°	2757	2822	2897
55°	2623	2657	2735
60°	2449	2461	2526
65°	2249	2234	2287
70°	2044	1987	1997
75°	1817	1718	1705
80°	1577	1410	1373
85°	1294	999	777



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.9	3.5
10°-20°	631.1	10.0
20°-30°	963.3	15.3
30°-40°	1161.4	18.4
40°-50°	1184.3	18.8
50°-60°	1013.6	16.1
60°-70°	698.2	11.1
70°-80°	357.9	5.7
80°-90°	83.3	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°	1813.3	28.7
0°-40°	2974.7	47.1
0°-60°	5172.6	81.9
0°-90°	6312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2308	2308	2308	2308	2308	
5°	2304	2299	2296	2304	2308	219
15°	2222	2220	2232	2248	2256	627
25°	2052	2059	2086	2122	2136	946
35°	1810	1817	1856	1896	1913	1133
45°	1499	1501	1537	1576	1585	1155
55°	1118	1111	1133	1157	1166	998
65°	706	690	702	706	718	702
75°	350	335	330	330	328	377
85°	84	74	65	58	50	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2308.3	2308.3	2308.3	2308.3	2308.3
2.5°	2310.7	2305.9	2301.1	2305.9	2310.7
5°	2303.5	2298.7	2296.3	2303.5	2308.3
7.5°	2291.6	2286.8	2286.8	2296.3	2301.1
10°	2272.4	2270.0	2274.8	2284.4	2294.0
12.5°	2248.5	2248.5	2255.6	2267.6	2277.2
15°	2222.1	2219.7	2231.7	2248.5	2255.6
17.5°	2186.2	2188.6	2205.4	2224.5	2234.1
20°	2150.3	2152.7	2169.4	2195.8	2207.8
22.5°	2104.8	2109.6	2128.7	2162.3	2174.2
25°	2052.1	2059.3	2085.6	2121.5	2135.9
27.5°	1999.4	2006.6	2035.3	2076.1	2095.2
30°	1942.0	1951.5	1980.3	2023.4	2040.1
32.5°	1877.3	1884.5	1920.4	1963.5	1980.3
35°	1810.3	1817.4	1855.8	1896.5	1913.2
37.5°	1743.2	1743.2	1781.5	1829.4	1846.2
40°	1661.8	1664.2	1704.9	1750.4	1760.0
42.5°	1585.2	1585.2	1621.1	1664.2	1681.0
45°	1499.0	1501.4	1537.3	1575.6	1585.2
47.5°	1410.4	1410.4	1441.5	1477.4	1487.0
50°	1317.0	1312.2	1348.1	1376.9	1384.0
52.5°	1221.2	1214.0	1242.8	1266.7	1276.3
55°	1118.2	1111.1	1132.6	1156.6	1166.1
57.5°	1010.5	1000.9	1024.9	1046.4	1051.2
60°	909.9	895.6	914.7	926.7	938.7
62.5°	809.3	792.6	807.0	814.1	823.7
65°	706.4	689.6	701.6	706.4	718.4
67.5°	608.2	596.2	598.6	605.8	610.6
70°	519.6	505.2	505.2	505.2	507.6
72.5°	438.2	416.6	414.3	416.6	416.6
75°	349.6	335.2	330.4	330.4	328.0
77.5°	280.2	261.0	258.6	253.8	249.0
80°	203.5	186.8	182.0	179.6	177.2
82.5°	141.3	126.9	122.1	117.3	110.1
85°	83.8	74.2	64.7	57.5	50.3
87.5°	31.1	28.7	23.9	21.6	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)