

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: P296124

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296124
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-LD5-60-RDP-UNV-L83050-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4995.0 lumens
Efficiency: N/A
Efficacy: 115.5 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

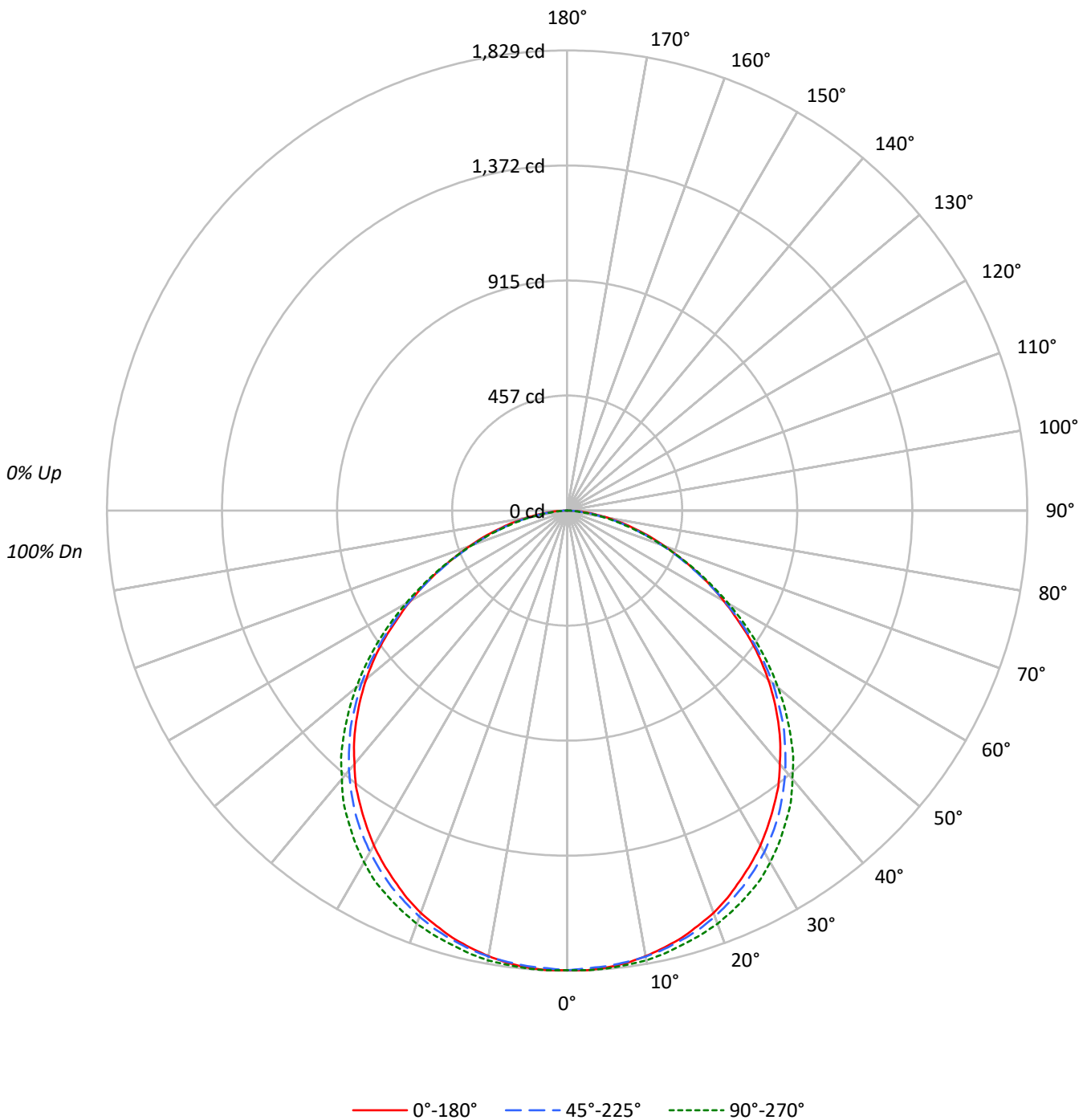
Input Watts (W): 43.245
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2458	2458	2458
5°	2462	2454	2467
10°	2457	2460	2480
15°	2450	2460	2486
20°	2436	2458	2502
25°	2411	2450	2509
30°	2388	2435	2508
35°	2353	2412	2487
40°	2310	2370	2446
45°	2257	2315	2387
50°	2182	2233	2293
55°	2076	2103	2165
60°	1938	1948	1999
65°	1780	1768	1810
70°	1618	1573	1580
75°	1438	1359	1350
80°	1248	1116	1086
85°	1024	790	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	3.5
10°-20°	499.4	10.0
20°-30°	762.3	15.3
30°-40°	919.0	18.4
40°-50°	937.2	18.8
50°-60°	802.1	16.1
60°-70°	552.5	11.1
70°-80°	283.2	5.7
80°-90°	65.9	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°	1435.0	28.7
0°-40°	2354.0	47.1
0°-60°	4093.3	81.9
0°-90°	4995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4995.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1827	1827	1827	1827	1827	
5°	1823	1819	1817	1823	1827	173
15°	1758	1757	1766	1779	1785	496
25°	1624	1630	1650	1679	1690	749
35°	1432	1438	1469	1501	1514	896
45°	1186	1188	1216	1247	1254	914
55°	885	879	896	915	923	789
65°	559	546	555	559	568	555
75°	277	265	262	262	260	298
85°	66	59	51	46	40	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1826.7	1826.7	1826.7	1826.7	1826.7
2.5°	1828.6	1824.8	1821.0	1824.8	1828.6
5°	1822.9	1819.1	1817.2	1822.9	1826.7
7.5°	1813.4	1809.6	1809.6	1817.2	1821.0
10°	1798.3	1796.4	1800.2	1807.7	1815.3
12.5°	1779.3	1779.3	1785.0	1794.5	1802.1
15°	1758.5	1756.6	1766.1	1779.3	1785.0
17.5°	1730.1	1731.9	1745.2	1760.4	1767.9
20°	1701.6	1703.5	1716.8	1737.6	1747.1
22.5°	1665.6	1669.4	1684.6	1711.1	1720.6
25°	1623.9	1629.6	1650.5	1678.9	1690.3
27.5°	1582.2	1587.9	1610.7	1642.9	1658.0
30°	1536.8	1544.3	1567.1	1601.2	1614.5
32.5°	1485.6	1491.3	1519.7	1553.8	1567.1
35°	1432.5	1438.2	1468.6	1500.8	1514.0
37.5°	1379.5	1379.5	1409.8	1447.7	1461.0
40°	1315.1	1317.0	1349.2	1385.2	1392.8
42.5°	1254.4	1254.4	1282.9	1317.0	1330.2
45°	1186.2	1188.1	1216.5	1246.8	1254.4
47.5°	1116.1	1116.1	1140.7	1169.2	1176.7
50°	1042.2	1038.4	1066.8	1089.6	1095.3
52.5°	966.4	960.7	983.5	1002.4	1010.0
55°	884.9	879.2	896.3	915.2	922.8
57.5°	799.7	792.1	811.0	828.1	831.9
60°	720.1	708.7	723.9	733.3	742.8
62.5°	640.5	627.2	638.6	644.3	651.8
65°	559.0	545.7	555.2	559.0	568.5
67.5°	481.3	471.8	473.7	479.4	483.2
70°	411.2	399.8	399.8	399.8	401.7
72.5°	346.8	329.7	327.8	329.7	329.7
75°	276.7	265.3	261.5	261.5	259.6
77.5°	221.7	206.5	204.6	200.9	197.1
80°	161.1	147.8	144.0	142.1	140.2
82.5°	111.8	100.4	96.6	92.9	87.2
85°	66.3	58.7	51.2	45.5	39.8
87.5°	24.6	22.7	18.9	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)