

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: P296125

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296125
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-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5245.0 lumens
Efficiency: N/A
Efficacy: 118.5 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

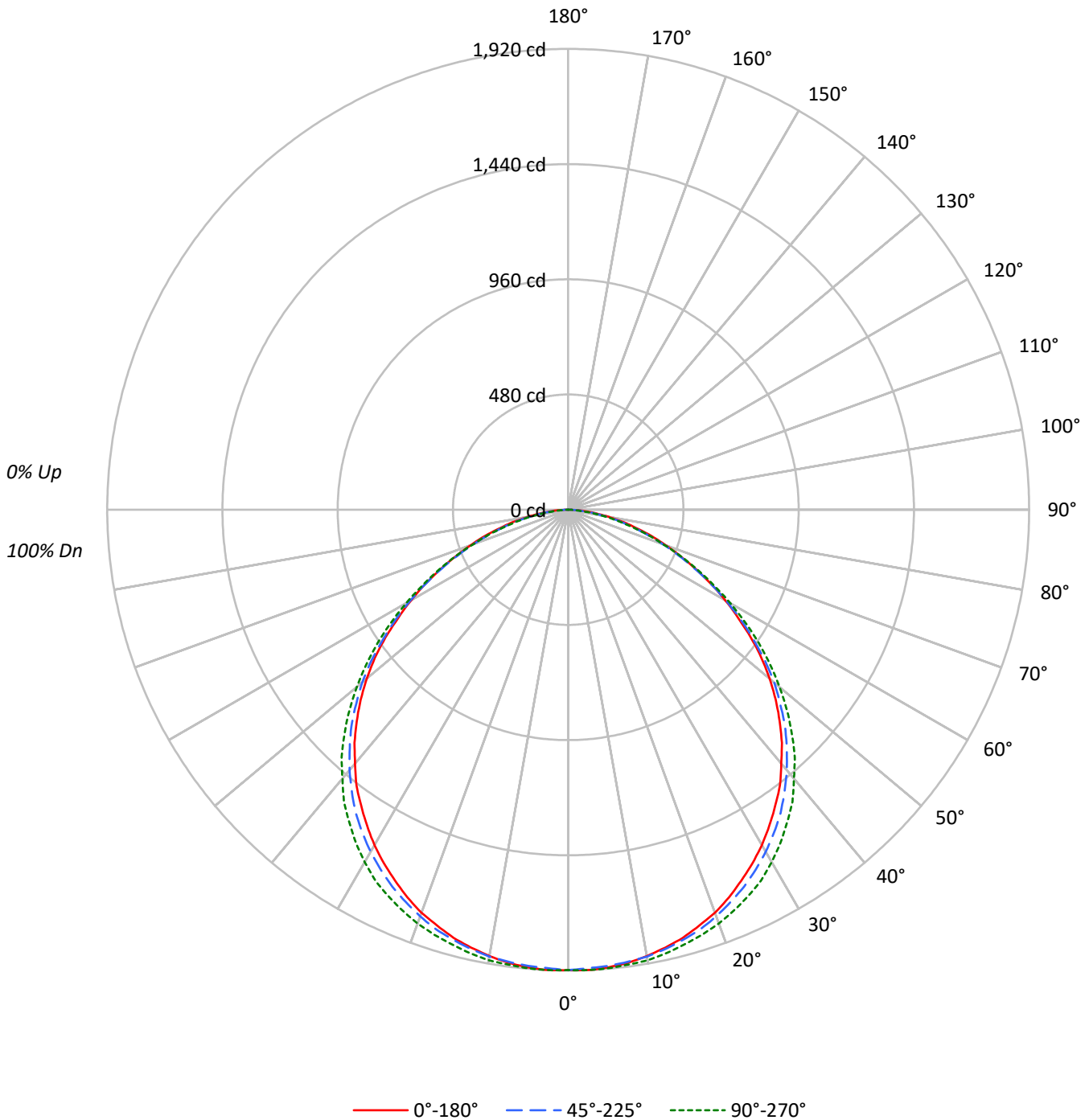
Input Watts (W): 44.268
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2581	2581	2581
5°	2585	2577	2591
10°	2580	2583	2604
15°	2572	2583	2611
20°	2558	2581	2627
25°	2532	2573	2635
30°	2507	2557	2634
35°	2471	2533	2611
40°	2425	2488	2569
45°	2370	2431	2506
50°	2291	2345	2407
55°	2180	2208	2273
60°	2035	2045	2099
65°	1869	1856	1900
70°	1699	1651	1659
75°	1510	1428	1417
80°	1310	1172	1141
85°	1074	829	645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.9	3.5
10°-20°	524.4	10.0
20°-30°	800.5	15.3
30°-40°	965.0	18.4
40°-50°	984.1	18.8
50°-60°	842.2	16.1
60°-70°	580.1	11.1
70°-80°	297.4	5.7
80°-90°	69.2	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°	1506.8	28.7
0°-40°	2471.9	47.1
0°-60°	4298.2	81.9
0°-90°	5245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5245.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1918	1918	1918	1918	1918	
5°	1914	1910	1908	1914	1918	182
15°	1846	1844	1854	1868	1874	521
25°	1705	1711	1733	1763	1775	786
35°	1504	1510	1542	1576	1590	941
45°	1246	1248	1277	1309	1317	960
55°	929	923	941	961	969	829
65°	587	573	583	587	597	583
75°	290	279	275	275	273	313
85°	70	62	54	48	42	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1918.1	1918.1	1918.1	1918.1	1918.1
2.5°	1920.1	1916.1	1912.1	1916.1	1920.1
5°	1914.1	1910.2	1908.2	1914.1	1918.1
7.5°	1904.2	1900.2	1900.2	1908.2	1912.1
10°	1888.3	1886.3	1890.3	1898.2	1906.2
12.5°	1868.4	1868.4	1874.3	1884.3	1892.2
15°	1846.5	1844.5	1854.4	1868.4	1874.3
17.5°	1816.6	1818.6	1832.6	1848.5	1856.4
20°	1786.8	1788.8	1802.7	1824.6	1834.5
22.5°	1749.0	1753.0	1768.9	1796.7	1806.7
25°	1705.2	1711.2	1733.1	1762.9	1774.9
27.5°	1661.4	1667.4	1691.3	1725.1	1741.0
30°	1613.7	1621.6	1645.5	1681.3	1695.3
32.5°	1560.0	1565.9	1595.8	1631.6	1645.5
35°	1504.2	1510.2	1542.1	1575.9	1589.8
37.5°	1448.5	1448.5	1480.4	1520.2	1534.1
40°	1380.9	1382.9	1416.7	1454.5	1462.5
42.5°	1317.2	1317.2	1347.1	1382.9	1396.8
45°	1245.6	1247.6	1277.4	1309.3	1317.2
47.5°	1172.0	1172.0	1197.8	1227.7	1235.6
50°	1094.4	1090.4	1120.2	1144.1	1150.1
52.5°	1014.8	1008.8	1032.7	1052.6	1060.5
55°	929.2	923.2	941.2	961.0	969.0
57.5°	839.7	831.7	851.6	869.5	873.5
60°	756.1	744.2	760.1	770.0	780.0
62.5°	672.5	658.6	670.5	676.5	684.5
65°	587.0	573.0	583.0	587.0	596.9
67.5°	505.4	495.4	497.4	503.4	507.4
70°	431.8	419.8	419.8	419.8	421.8
72.5°	364.1	346.2	344.2	346.2	346.2
75°	290.5	278.6	274.6	274.6	272.6
77.5°	232.8	216.9	214.9	210.9	206.9
80°	169.1	155.2	151.2	149.2	147.2
82.5°	117.4	105.5	101.5	97.5	91.5
85°	69.6	61.7	53.7	47.8	41.8
87.5°	25.9	23.9	19.9	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)