

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: P296344

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296344
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-L92765-W2A1-U-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4709.0 lumens
Efficiency: N/A
Efficacy: 105.7 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

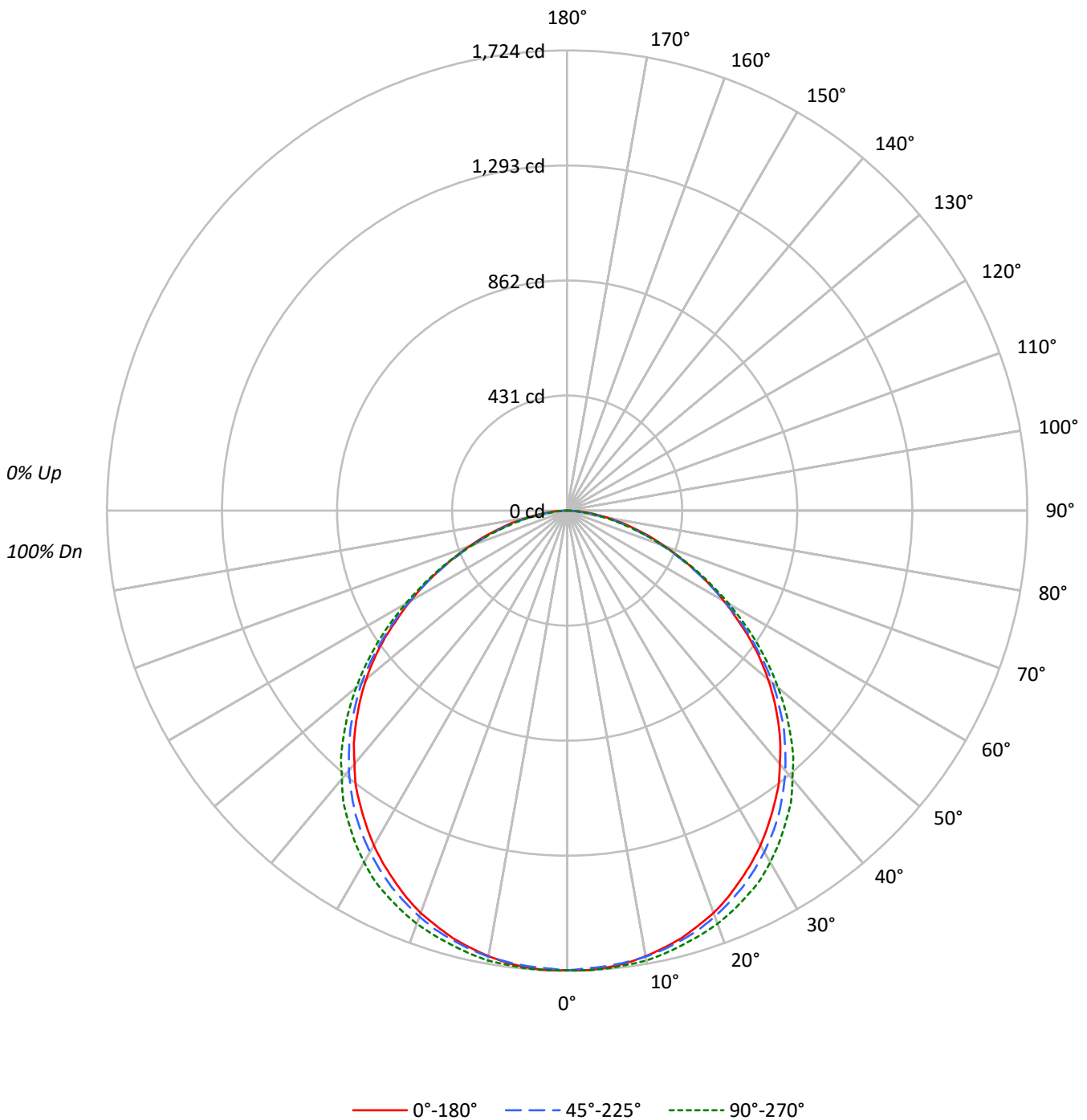
Input Watts (W): 44.547
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2317	2317	2317
5°	2321	2314	2326
10°	2316	2319	2338
15°	2309	2319	2344
20°	2297	2317	2358
25°	2273	2310	2366
30°	2251	2295	2365
35°	2218	2274	2344
40°	2178	2234	2306
45°	2128	2182	2250
50°	2057	2105	2161
55°	1957	1982	2041
60°	1827	1836	1884
65°	1678	1666	1706
70°	1525	1483	1490
75°	1356	1281	1272
80°	1176	1052	1024
85°	965	744	579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	3.5
10°-20°	470.8	10.0
20°-30°	718.7	15.3
30°-40°	866.4	18.4
40°-50°	883.6	18.8
50°-60°	756.2	16.1
60°-70°	520.9	11.1
70°-80°	267.0	5.7
80°-90°	62.2	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°	1352.8	28.7
0°-40°	2219.3	47.1
0°-60°	3859.0	81.9
0°-90°	4709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1722	1722	1722	1722	1722	
5°	1718	1715	1713	1718	1722	163
15°	1658	1656	1665	1677	1683	468
25°	1531	1536	1556	1583	1594	706
35°	1350	1356	1384	1415	1427	845
45°	1118	1120	1147	1176	1183	862
55°	834	829	845	863	870	744
65°	527	514	523	527	536	524
75°	261	250	246	246	245	281
85°	62	55	48	43	38	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1722.1	1722.1	1722.1	1722.1	1722.1
2.5°	1723.9	1720.3	1716.7	1720.3	1723.9
5°	1718.5	1715.0	1713.2	1718.5	1722.1
7.5°	1709.6	1706.0	1706.0	1713.2	1716.7
10°	1695.3	1693.5	1697.1	1704.2	1711.4
12.5°	1677.4	1677.4	1682.8	1691.7	1698.9
15°	1657.8	1656.0	1664.9	1677.4	1682.8
17.5°	1631.0	1632.8	1645.3	1659.6	1666.7
20°	1604.2	1606.0	1618.5	1638.1	1647.1
22.5°	1570.3	1573.8	1588.1	1613.1	1622.1
25°	1531.0	1536.3	1556.0	1582.8	1593.5
27.5°	1491.7	1497.0	1518.4	1548.8	1563.1
30°	1448.8	1455.9	1477.4	1509.5	1522.0
32.5°	1400.5	1405.9	1432.7	1464.9	1477.4
35°	1350.5	1355.9	1384.5	1414.8	1427.3
37.5°	1300.5	1300.5	1329.1	1364.8	1377.3
40°	1239.8	1241.6	1271.9	1305.9	1313.0
42.5°	1182.6	1182.6	1209.4	1241.6	1254.1
45°	1118.3	1120.1	1146.9	1175.5	1182.6
47.5°	1052.2	1052.2	1075.4	1102.2	1109.4
50°	982.5	979.0	1005.7	1027.2	1032.5
52.5°	911.1	905.7	927.1	945.0	952.2
55°	834.3	828.9	845.0	862.8	870.0
57.5°	753.9	746.7	764.6	780.7	784.2
60°	678.8	668.1	682.4	691.3	700.3
62.5°	603.8	591.3	602.0	607.4	614.5
65°	527.0	514.5	523.4	527.0	535.9
67.5°	453.7	444.8	446.6	452.0	455.5
70°	387.7	376.9	376.9	376.9	378.7
72.5°	326.9	310.8	309.0	310.8	310.8
75°	260.8	250.1	246.5	246.5	244.7
77.5°	209.0	194.7	192.9	189.4	185.8
80°	151.8	139.3	135.8	134.0	132.2
82.5°	105.4	94.7	91.1	87.5	82.2
85°	62.5	55.4	48.2	42.9	37.5
87.5°	23.2	21.4	17.9	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)