

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: P296345

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296345  
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-6500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4741.0 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

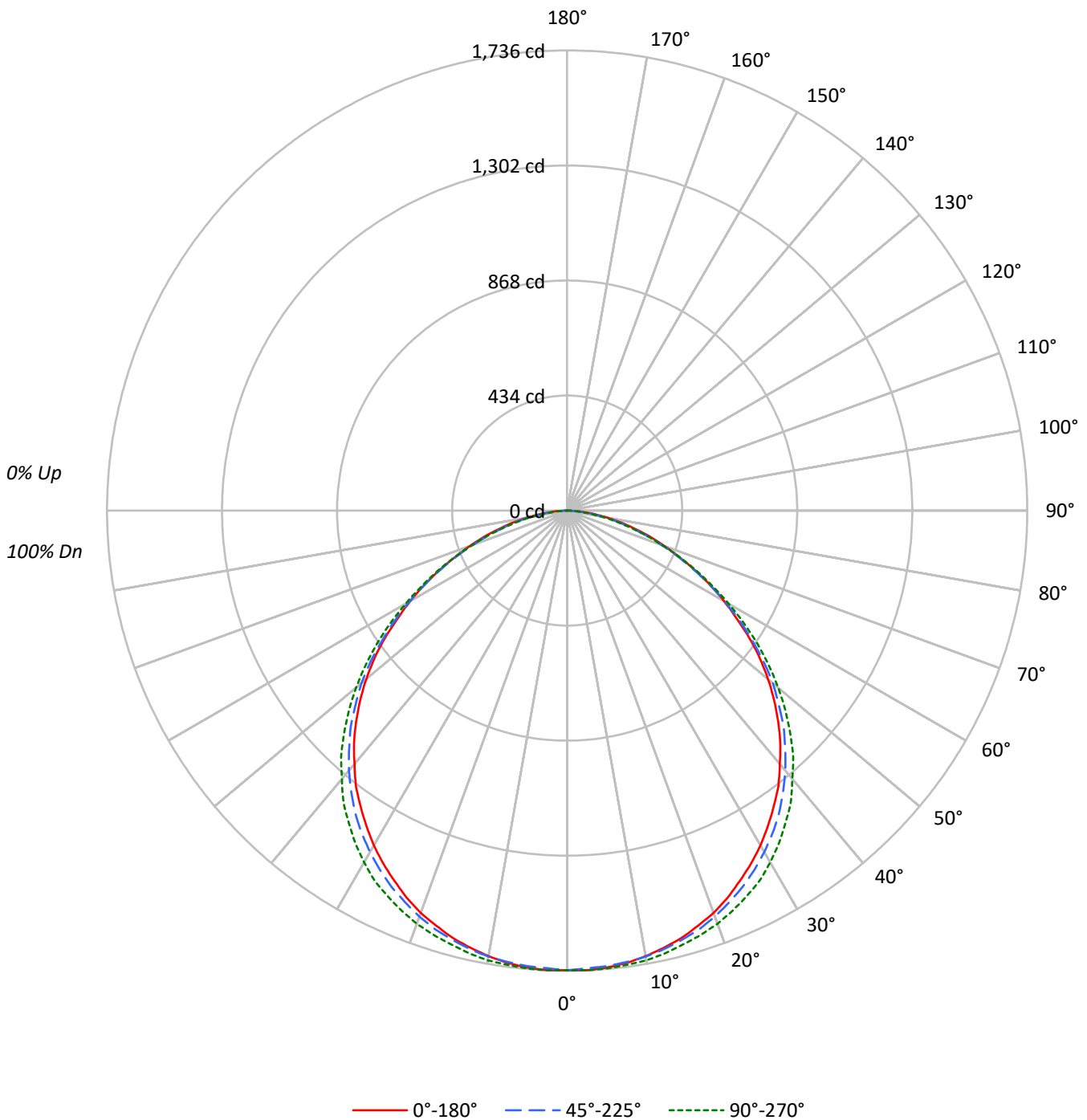
Input Watts (W): 45.291  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2333	2333	2333
5°	2337	2330	2342
10°	2332	2334	2354
15°	2325	2335	2360
20°	2313	2333	2374
25°	2288	2326	2382
30°	2266	2311	2381
35°	2233	2290	2360
40°	2192	2249	2322
45°	2142	2197	2265
50°	2071	2120	2176
55°	1970	1996	2055
60°	1839	1849	1897
65°	1689	1678	1718
70°	1535	1493	1500
75°	1365	1290	1281
80°	1185	1059	1031
85°	971	750	584



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.4	3.5
10°-20°	474.0	10.0
20°-30°	723.6	15.3
30°-40°	872.3	18.4
40°-50°	889.5	18.8
50°-60°	761.3	16.1
60°-70°	524.4	11.1
70°-80°	268.8	5.7
80°-90°	62.6	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°	1362.0	28.7
0°-40°	2234.3	47.1
0°-60°	3885.2	81.9
0°-90°	4741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4741.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1730	1727	1725	1730	1734	164
15°	1669	1667	1676	1689	1694	471
25°	1541	1547	1566	1594	1604	711
35°	1360	1365	1394	1424	1437	851
45°	1126	1128	1155	1183	1191	867
55°	840	834	851	869	876	749
65°	531	518	527	531	540	527
75°	263	252	248	248	246	283
85°	63	56	49	43	38	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1733.8	1733.8	1733.8	1733.8	1733.8
2.5°	1735.6	1732.0	1728.4	1732.0	1735.6
5°	1730.2	1726.6	1724.8	1730.2	1733.8
7.5°	1721.2	1717.6	1717.6	1724.8	1728.4
10°	1706.8	1705.0	1708.6	1715.8	1723.0
12.5°	1688.8	1688.8	1694.2	1703.2	1710.4
15°	1669.1	1667.3	1676.2	1688.8	1694.2
17.5°	1642.1	1643.9	1656.5	1670.9	1678.0
20°	1615.1	1616.9	1629.5	1649.3	1658.3
22.5°	1580.9	1584.5	1598.9	1624.1	1633.1
25°	1541.4	1546.8	1566.5	1593.5	1604.3
27.5°	1501.8	1507.2	1528.8	1559.3	1573.7
30°	1458.6	1465.8	1487.4	1519.8	1532.4
32.5°	1410.1	1415.5	1442.4	1474.8	1487.4
35°	1359.7	1365.1	1393.9	1424.5	1437.0
37.5°	1309.3	1309.3	1338.1	1374.1	1386.7
40°	1248.2	1250.0	1280.6	1314.7	1321.9
42.5°	1190.6	1190.6	1217.6	1250.0	1262.6
45°	1125.9	1127.7	1154.7	1183.4	1190.6
47.5°	1059.3	1059.3	1082.7	1109.7	1116.9
50°	989.2	985.6	1012.6	1034.2	1039.6
52.5°	917.3	911.9	933.4	951.4	958.6
55°	839.9	834.5	850.7	868.7	875.9
57.5°	759.0	751.8	769.8	786.0	789.6
60°	683.4	672.7	687.0	696.0	705.0
62.5°	607.9	595.3	606.1	611.5	618.7
65°	530.6	518.0	527.0	530.6	539.6
67.5°	456.8	447.8	449.6	455.0	458.6
70°	390.3	379.5	379.5	379.5	381.3
72.5°	329.1	312.9	311.1	312.9	312.9
75°	262.6	251.8	248.2	248.2	246.4
77.5°	210.4	196.0	194.2	190.6	187.0
80°	152.9	140.3	136.7	134.9	133.1
82.5°	106.1	95.3	91.7	88.1	82.7
85°	62.9	55.8	48.6	43.2	37.8
87.5°	23.4	21.6	18.0	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)