

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: P296193

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296193  
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-LD5-55-RDP-UNV-L82765-W2A1-U-5000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4738.0 lumens  
Efficiency: N/A  
Efficacy: 120.7 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

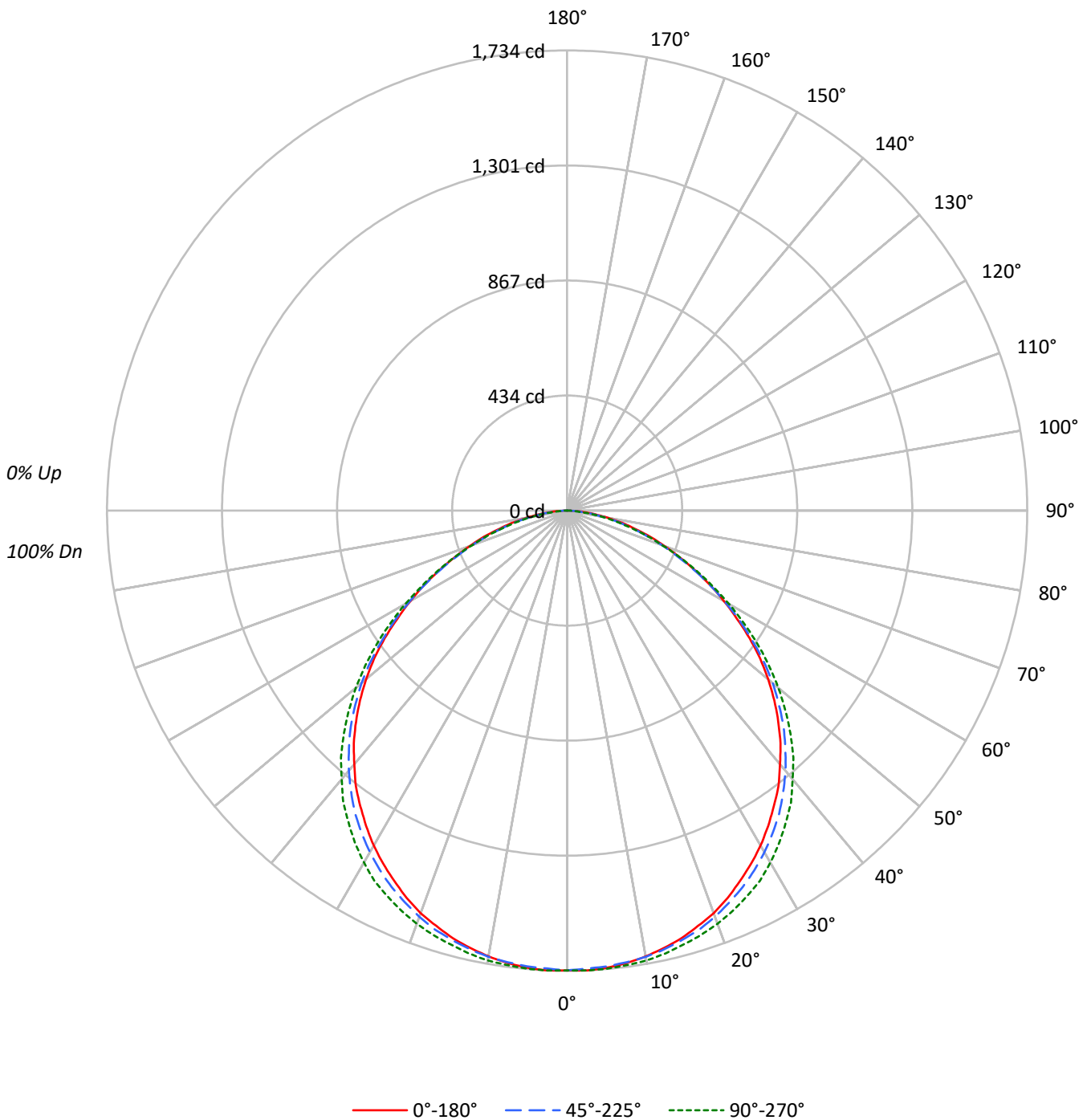
Input Watts (W): 39.246  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2331	2331	2331
5°	2335	2328	2340
10°	2330	2333	2353
15°	2323	2333	2359
20°	2311	2332	2373
25°	2287	2324	2380
30°	2265	2309	2379
35°	2232	2288	2359
40°	2191	2248	2320
45°	2141	2196	2264
50°	2069	2118	2175
55°	1969	1994	2053
60°	1838	1848	1896
65°	1688	1677	1717
70°	1534	1492	1499
75°	1364	1289	1280
80°	1184	1058	1031
85°	971	749	582



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.3	3.5
10°-20°	473.7	10.0
20°-30°	723.1	15.3
30°-40°	871.8	18.4
40°-50°	889.0	18.8
50°-60°	760.8	16.1
60°-70°	524.1	11.1
70°-80°	268.6	5.7
80°-90°	62.5	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°	1361.2	28.7
0°-40°	2232.9	47.1
0°-60°	3882.7	81.9
0°-90°	4738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4738.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1733	1733	1733	1733	1733	
5°	1729	1726	1724	1729	1733	164
15°	1668	1666	1675	1688	1693	470
25°	1540	1546	1566	1592	1603	710
35°	1359	1364	1393	1424	1436	850
45°	1125	1127	1154	1183	1190	867
55°	839	834	850	868	875	749
65°	530	518	527	530	539	527
75°	262	252	248	248	246	283
85°	63	56	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°	1732.7	1732.7	1732.7	1732.7	1732.7
2.5°	1734.5	1730.9	1727.3	1730.9	1734.5
5°	1729.1	1725.5	1723.7	1729.1	1732.7
7.5°	1720.1	1716.5	1716.5	1723.7	1727.3
10°	1705.7	1703.9	1707.5	1714.7	1721.9
12.5°	1687.8	1687.8	1693.2	1702.1	1709.3
15°	1668.0	1666.2	1675.2	1687.8	1693.2
17.5°	1641.0	1642.8	1655.4	1669.8	1677.0
20°	1614.1	1615.9	1628.5	1648.2	1657.2
22.5°	1579.9	1583.5	1597.9	1623.1	1632.0
25°	1540.4	1545.8	1565.5	1592.5	1603.3
27.5°	1500.8	1506.2	1527.8	1558.4	1572.7
30°	1457.7	1464.9	1486.5	1518.8	1531.4
32.5°	1409.2	1414.6	1441.5	1473.9	1486.5
35°	1358.8	1364.2	1393.0	1423.5	1436.1
37.5°	1308.5	1308.5	1337.3	1373.2	1385.8
40°	1247.4	1249.2	1279.8	1313.9	1321.1
42.5°	1189.9	1189.9	1216.8	1249.2	1261.8
45°	1125.2	1127.0	1153.9	1182.7	1189.9
47.5°	1058.7	1058.7	1082.0	1109.0	1116.2
50°	988.6	985.0	1011.9	1033.5	1038.9
52.5°	916.7	911.3	932.9	950.8	958.0
55°	839.4	834.0	850.2	868.1	875.3
57.5°	758.5	751.3	769.3	785.5	789.1
60°	683.0	672.2	686.6	695.6	704.6
62.5°	607.5	594.9	605.7	611.1	618.3
65°	530.2	517.7	526.6	530.2	539.2
67.5°	456.5	447.6	449.4	454.7	458.3
70°	390.0	379.3	379.3	379.3	381.1
72.5°	328.9	312.7	311.0	312.7	312.7
75°	262.4	251.6	248.0	248.0	246.2
77.5°	210.3	195.9	194.1	190.5	186.9
80°	152.8	140.2	136.6	134.8	133.0
82.5°	106.0	95.3	91.7	88.1	82.7
85°	62.9	55.7	48.5	43.1	37.7
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)