

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: P296206

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296206
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-LD5-67-RDP-UNV-L82765-W2A1-U-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5096.0 lumens
Efficiency: N/A
Efficacy: 104.8 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

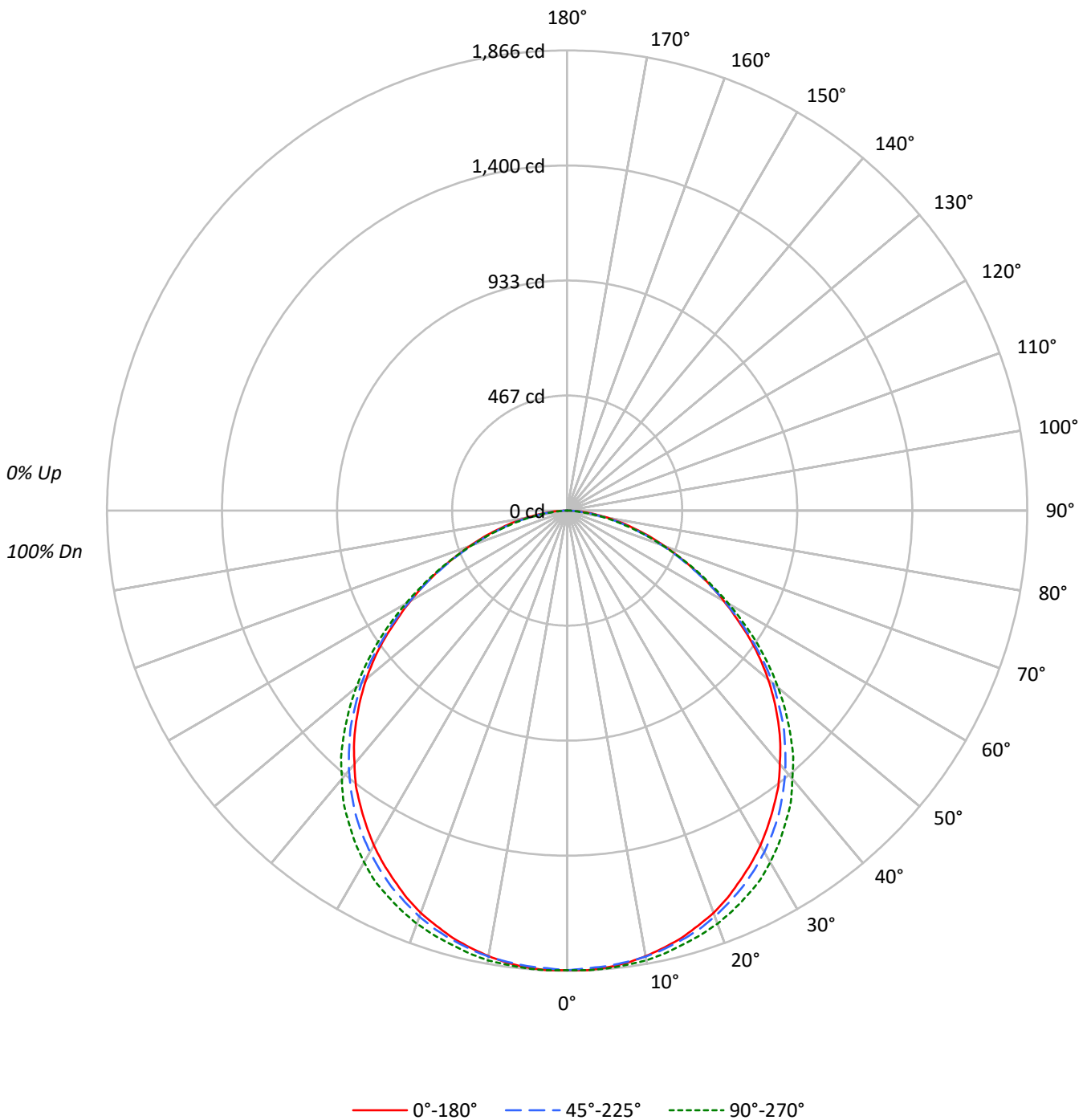
Input Watts (W): 48.639
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2507	2507	2507
5°	2512	2504	2517
10°	2507	2509	2530
15°	2499	2510	2537
20°	2486	2508	2552
25°	2460	2500	2560
30°	2436	2484	2559
35°	2401	2461	2537
40°	2357	2418	2496
45°	2303	2362	2435
50°	2226	2278	2339
55°	2118	2145	2209
60°	1977	1987	2039
65°	1816	1803	1847
70°	1650	1605	1612
75°	1468	1387	1377
80°	1273	1138	1109
85°	1045	806	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	3.5
10°-20°	509.5	10.0
20°-30°	777.7	15.3
30°-40°	937.6	18.4
40°-50°	956.2	18.8
50°-60°	818.3	16.1
60°-70°	563.7	11.1
70°-80°	289.0	5.7
80°-90°	67.3	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°	1464.0	28.7
0°-40°	2401.6	47.1
0°-60°	4176.1	81.9
0°-90°	5096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1864	1864	1864	1864	1864	
5°	1860	1856	1854	1860	1864	177
15°	1794	1792	1802	1815	1821	506
25°	1657	1663	1684	1713	1724	764
35°	1462	1467	1498	1531	1545	914
45°	1210	1212	1241	1272	1280	932
55°	903	897	914	934	942	805
65°	570	557	566	570	580	567
75°	282	271	267	267	265	304
85°	68	60	52	46	41	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1863.6	1863.6	1863.6	1863.6	1863.6
2.5°	1865.6	1861.7	1857.8	1861.7	1865.6
5°	1859.8	1855.9	1854.0	1859.8	1863.6
7.5°	1850.1	1846.2	1846.2	1854.0	1857.8
10°	1834.6	1832.7	1836.6	1844.3	1852.0
12.5°	1815.3	1815.3	1821.1	1830.8	1838.5
15°	1794.0	1792.1	1801.8	1815.3	1821.1
17.5°	1765.0	1767.0	1780.5	1796.0	1803.7
20°	1736.0	1738.0	1751.5	1772.8	1782.4
22.5°	1699.3	1703.2	1718.6	1745.7	1755.4
25°	1656.8	1662.6	1683.8	1712.8	1724.4
27.5°	1614.2	1620.0	1643.2	1676.1	1691.6
30°	1567.8	1575.6	1598.8	1633.6	1647.1
32.5°	1515.6	1521.4	1550.4	1585.2	1598.8
35°	1461.5	1467.3	1498.2	1531.1	1544.6
37.5°	1407.4	1407.4	1438.3	1477.0	1490.5
40°	1341.7	1343.6	1376.5	1413.2	1420.9
42.5°	1279.8	1279.8	1308.8	1343.6	1357.1
45°	1210.2	1212.1	1241.1	1272.1	1279.8
47.5°	1138.7	1138.7	1163.8	1192.8	1200.5
50°	1063.3	1059.4	1088.4	1111.6	1117.4
52.5°	985.9	980.1	1003.3	1022.7	1030.4
55°	902.8	897.0	914.4	933.7	941.5
57.5°	815.8	808.1	827.4	844.8	848.7
60°	734.6	723.0	738.5	748.2	757.8
62.5°	653.4	639.9	651.5	657.3	665.0
65°	570.3	556.8	566.4	570.3	580.0
67.5°	491.0	481.4	483.3	489.1	493.0
70°	419.5	407.9	407.9	407.9	409.8
72.5°	353.8	336.4	334.4	336.4	336.4
75°	282.3	270.7	266.8	266.8	264.9
77.5°	226.2	210.7	208.8	204.9	201.1
80°	164.3	150.8	146.9	145.0	143.1
82.5°	114.1	102.5	98.6	94.7	88.9
85°	67.7	59.9	52.2	46.4	40.6
87.5°	25.1	23.2	19.3	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)