

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: P296348

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296348
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-L92765-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4751.0 lumens
Efficiency: N/A
Efficacy: 97.5 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

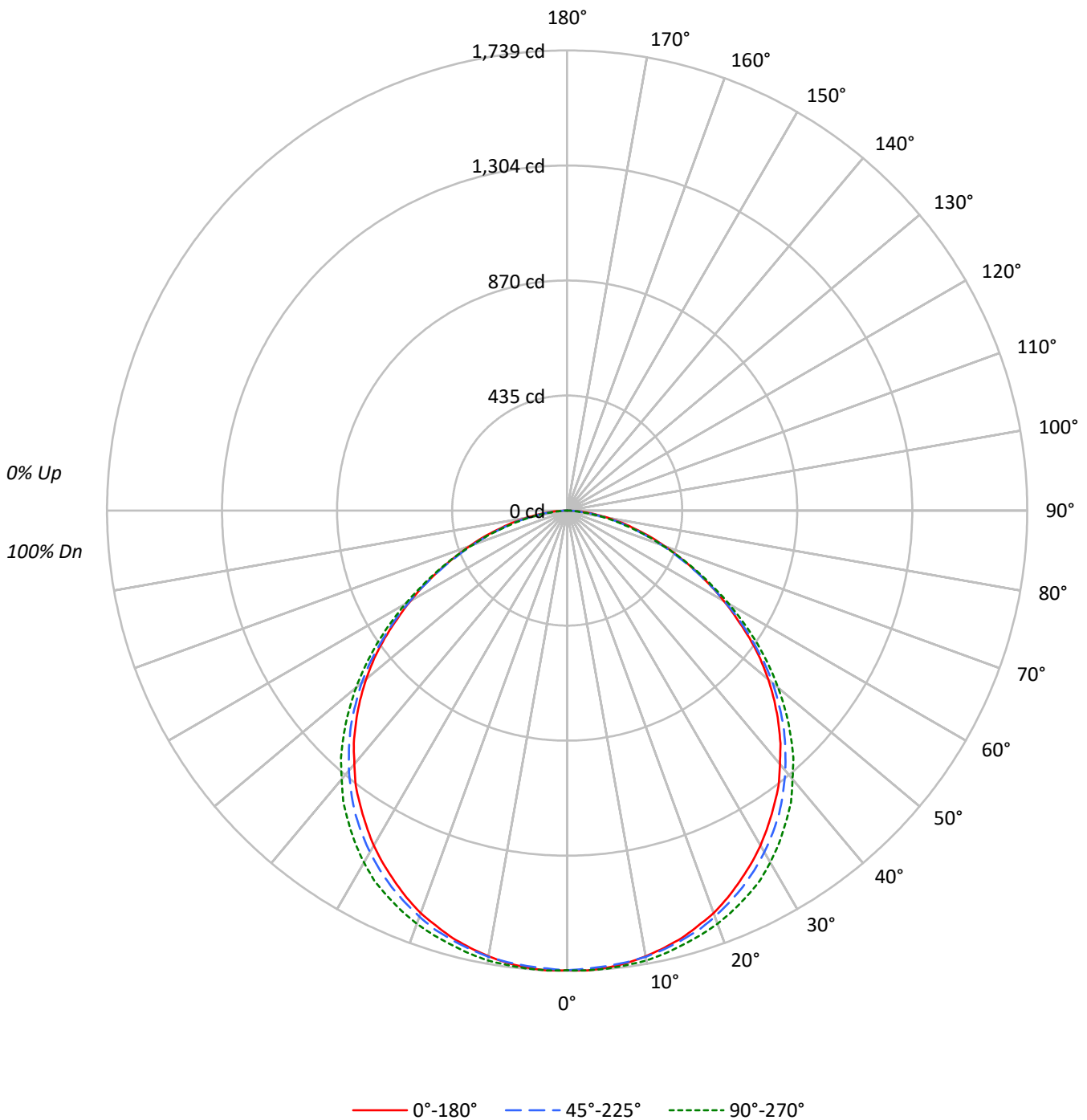
Input Watts (W): 48.732
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2338	2338	2338
5°	2342	2334	2347
10°	2337	2339	2359
15°	2330	2340	2365
20°	2317	2338	2379
25°	2293	2330	2387
30°	2271	2316	2386
35°	2238	2294	2365
40°	2197	2254	2327
45°	2147	2202	2270
50°	2075	2124	2181
55°	1974	2000	2059
60°	1843	1853	1901
65°	1693	1681	1721
70°	1539	1496	1503
75°	1368	1293	1284
80°	1187	1062	1034
85°	974	752	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	3.5
10°-20°	475.0	10.0
20°-30°	725.1	15.3
30°-40°	874.1	18.4
40°-50°	891.4	18.8
50°-60°	762.9	16.1
60°-70°	525.5	11.1
70°-80°	269.4	5.7
80°-90°	62.7	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°	1364.9	28.7
0°-40°	2239.0	47.1
0°-60°	3893.4	81.9
0°-90°	4751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4751.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1738	1738	1738	1738	1738	
5°	1734	1730	1728	1734	1738	165
15°	1673	1671	1680	1692	1698	472
25°	1545	1550	1570	1597	1608	712
35°	1363	1368	1397	1428	1440	852
45°	1128	1130	1157	1186	1193	869
55°	842	836	852	870	878	751
65°	532	519	528	532	541	528
75°	263	252	249	249	247	284
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°	1737.5	1737.5	1737.5	1737.5	1737.5
2.5°	1739.3	1735.7	1732.1	1735.7	1739.3
5°	1733.9	1730.2	1728.4	1733.9	1737.5
7.5°	1724.8	1721.2	1721.2	1728.4	1732.1
10°	1710.4	1708.6	1712.2	1719.4	1726.6
12.5°	1692.4	1692.4	1697.8	1706.8	1714.0
15°	1672.6	1670.8	1679.8	1692.4	1697.8
17.5°	1645.5	1647.3	1660.0	1674.4	1681.6
20°	1618.5	1620.3	1632.9	1652.7	1661.8
22.5°	1584.3	1587.9	1602.3	1627.5	1636.5
25°	1544.6	1550.0	1569.8	1596.9	1607.7
27.5°	1505.0	1510.4	1532.0	1562.6	1577.1
30°	1461.7	1468.9	1490.5	1523.0	1535.6
32.5°	1413.0	1418.4	1445.5	1477.9	1490.5
35°	1362.6	1368.0	1396.8	1427.5	1440.1
37.5°	1312.1	1312.1	1340.9	1377.0	1389.6
40°	1250.8	1252.6	1283.3	1317.5	1324.7
42.5°	1193.2	1193.2	1220.2	1252.6	1265.2
45°	1128.3	1130.1	1157.1	1185.9	1193.2
47.5°	1061.6	1061.6	1085.0	1112.0	1119.3
50°	991.3	987.7	1014.7	1036.3	1041.8
52.5°	919.2	913.8	935.4	953.4	960.6
55°	841.7	836.3	852.5	870.5	877.7
57.5°	760.6	753.4	771.4	787.6	791.2
60°	684.9	674.1	688.5	697.5	706.5
62.5°	609.2	596.6	607.4	612.8	620.0
65°	531.7	519.1	528.1	531.7	540.7
67.5°	457.8	448.8	450.6	456.0	459.6
70°	391.1	380.3	380.3	380.3	382.1
72.5°	329.8	313.6	311.8	313.6	313.6
75°	263.1	252.3	248.7	248.7	246.9
77.5°	210.9	196.5	194.7	191.0	187.4
80°	153.2	140.6	137.0	135.2	133.4
82.5°	106.3	95.5	91.9	88.3	82.9
85°	63.1	55.9	48.7	43.3	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)