

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: P296198

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296198
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-L82765-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4716.0 lumens
Efficiency: N/A
Efficacy: 109.8 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

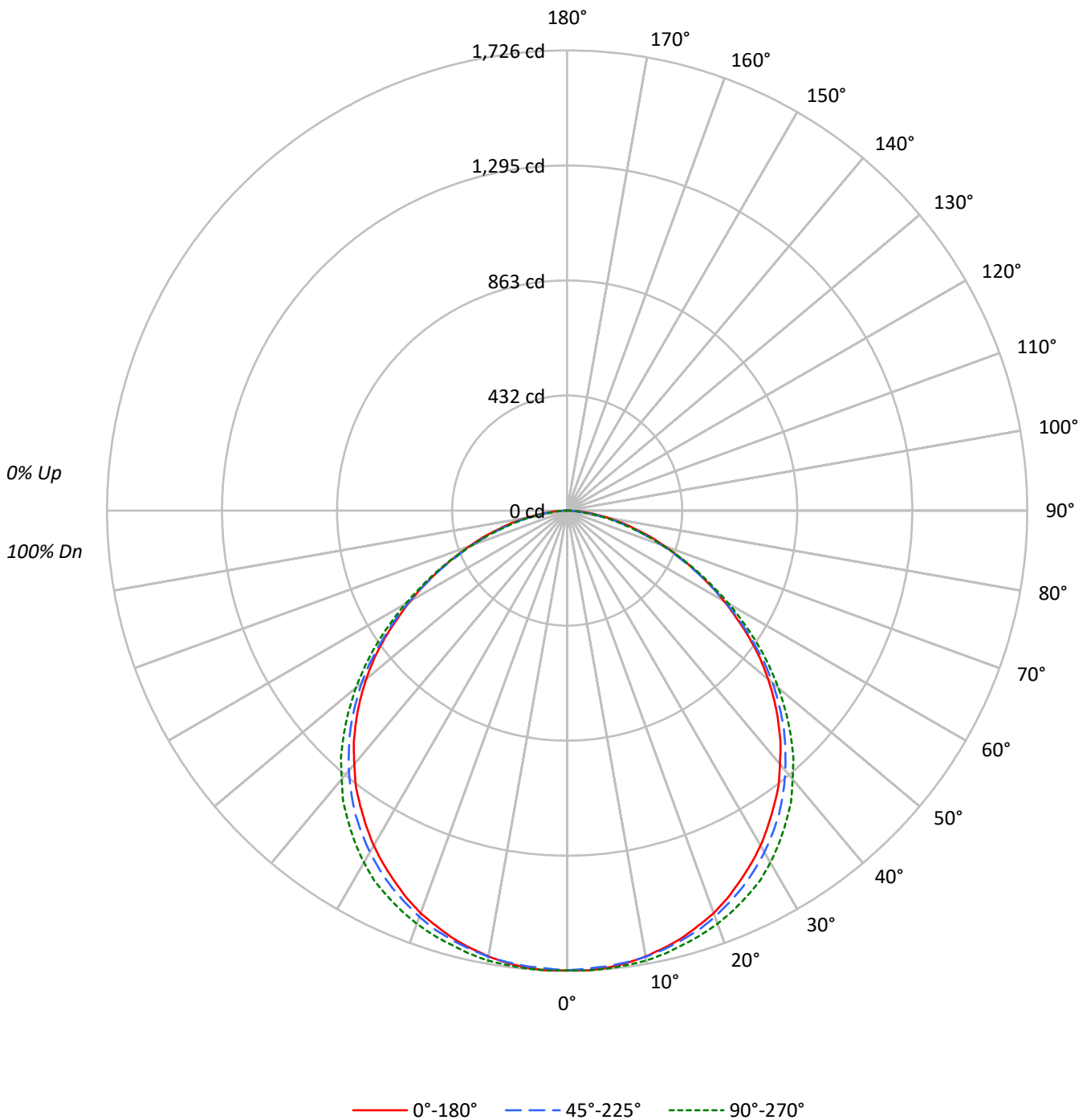
Input Watts (W): 42.966
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2321	2321	2321
5°	2325	2317	2329
10°	2320	2322	2342
15°	2313	2323	2348
20°	2300	2321	2362
25°	2276	2313	2369
30°	2254	2299	2368
35°	2222	2277	2348
40°	2181	2237	2310
45°	2131	2186	2254
50°	2060	2108	2165
55°	1960	1985	2044
60°	1829	1839	1887
65°	1680	1669	1709
70°	1527	1485	1492
75°	1358	1284	1274
80°	1179	1054	1026
85°	966	746	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	3.5
10°-20°	471.5	10.0
20°-30°	719.8	15.3
30°-40°	867.7	18.4
40°-50°	884.9	18.8
50°-60°	757.3	16.1
60°-70°	521.6	11.1
70°-80°	267.4	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°	1354.8	28.7
0°-40°	2222.5	47.1
0°-60°	3864.7	81.9
0°-90°	4716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1725	1725	1725	1725	1725	
5°	1721	1718	1716	1721	1725	164
15°	1660	1658	1667	1680	1685	468
25°	1533	1539	1558	1585	1596	707
35°	1352	1358	1386	1417	1430	846
45°	1120	1122	1149	1177	1184	863
55°	836	830	846	864	871	745
65°	528	515	524	528	537	524
75°	261	250	247	247	245	282
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°	1724.7	1724.7	1724.7	1724.7	1724.7
2.5°	1726.4	1722.9	1719.3	1722.9	1726.4
5°	1721.1	1717.5	1715.7	1721.1	1724.7
7.5°	1712.1	1708.6	1708.6	1715.7	1719.3
10°	1697.8	1696.0	1699.6	1706.8	1713.9
12.5°	1679.9	1679.9	1685.3	1694.2	1701.4
15°	1660.3	1658.5	1667.4	1679.9	1685.3
17.5°	1633.4	1635.2	1647.7	1662.0	1669.2
20°	1606.6	1608.4	1620.9	1640.6	1649.5
22.5°	1572.6	1576.2	1590.5	1615.5	1624.5
25°	1533.2	1538.6	1558.3	1585.1	1595.8
27.5°	1493.9	1499.2	1520.7	1551.1	1565.4
30°	1450.9	1458.1	1479.6	1511.8	1524.3
32.5°	1402.6	1408.0	1434.8	1467.0	1479.6
35°	1352.5	1357.9	1386.5	1416.9	1429.5
37.5°	1302.4	1302.4	1331.1	1366.8	1379.4
40°	1241.6	1243.4	1273.8	1307.8	1315.0
42.5°	1184.4	1184.4	1211.2	1243.4	1255.9
45°	1120.0	1121.7	1148.6	1177.2	1184.4
47.5°	1053.8	1053.8	1077.0	1103.9	1111.0
50°	984.0	980.4	1007.2	1028.7	1034.1
52.5°	912.4	907.1	928.5	946.4	953.6
55°	835.5	830.1	846.2	864.1	871.3
57.5°	755.0	747.8	765.7	781.8	785.4
60°	679.8	669.1	683.4	692.4	701.3
62.5°	604.7	592.2	602.9	608.3	615.4
65°	527.8	515.3	524.2	527.8	536.7
67.5°	454.4	445.5	447.3	452.6	456.2
70°	388.2	377.5	377.5	377.5	379.3
72.5°	327.4	311.3	309.5	311.3	311.3
75°	261.2	250.5	246.9	246.9	245.1
77.5°	209.3	195.0	193.2	189.6	186.1
80°	152.1	139.5	136.0	134.2	132.4
82.5°	105.6	94.8	91.2	87.7	82.3
85°	62.6	55.5	48.3	42.9	37.6
87.5°	23.3	21.5	17.9	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)