

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: P296266

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296266
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-L93050-W2A1-U-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4665.0 lumens
Efficiency: N/A
Efficacy: 103.4 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

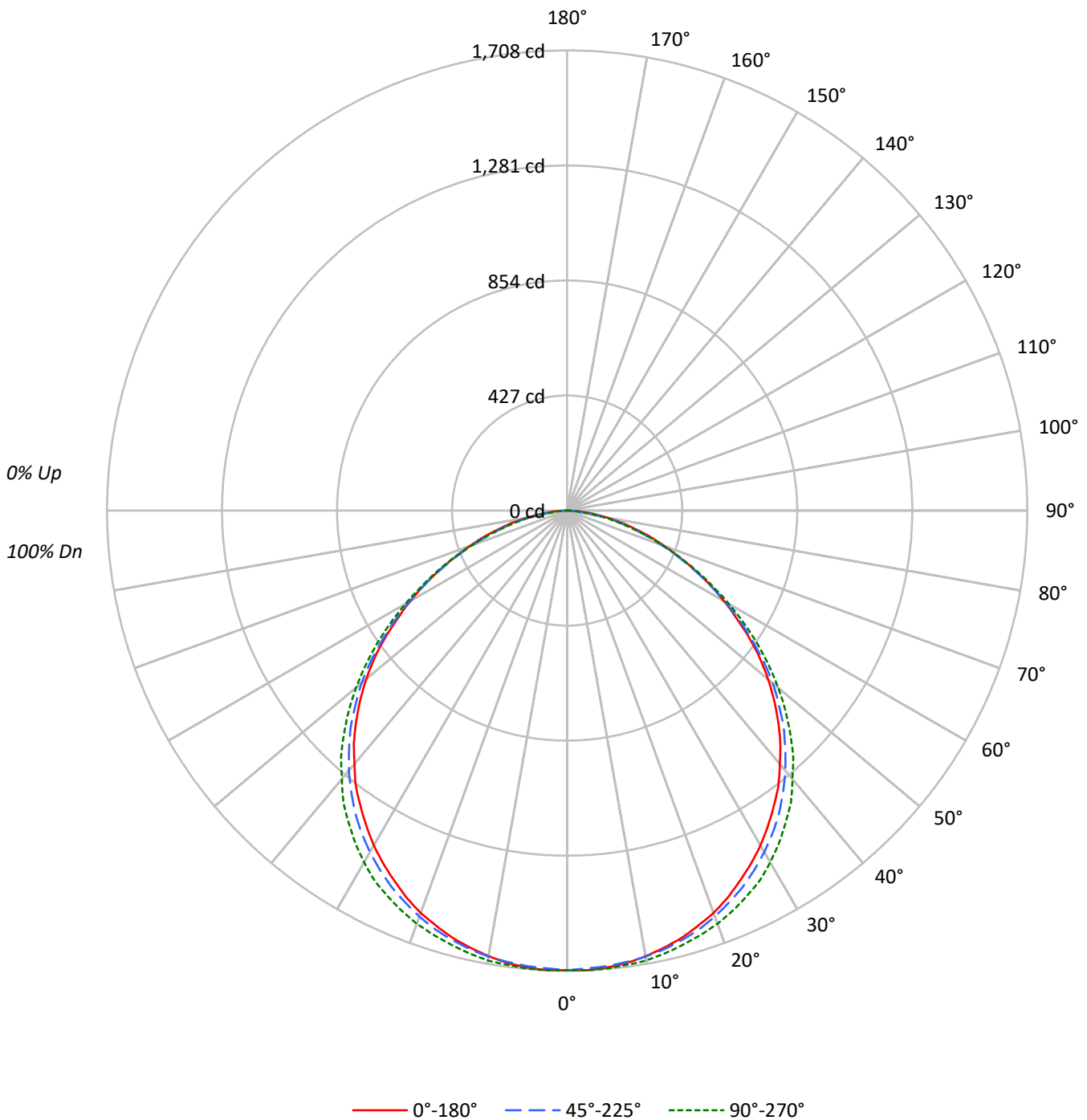
Input Watts (W): 45.105
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2295	2295	2295
5°	2299	2292	2304
10°	2295	2297	2316
15°	2288	2298	2322
20°	2275	2296	2336
25°	2252	2288	2344
30°	2230	2274	2343
35°	2198	2253	2323
40°	2157	2213	2285
45°	2108	2162	2229
50°	2037	2086	2141
55°	1939	1964	2022
60°	1810	1819	1867
65°	1662	1651	1690
70°	1511	1469	1476
75°	1343	1269	1261
80°	1165	1042	1015
85°	956	738	574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	3.5
10°-20°	466.4	10.0
20°-30°	712.0	15.3
30°-40°	858.3	18.4
40°-50°	875.3	18.8
50°-60°	749.1	16.1
60°-70°	516.0	11.1
70°-80°	264.5	5.7
80°-90°	61.6	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°	1340.2	28.7
0°-40°	2198.5	47.1
0°-60°	3822.9	81.9
0°-90°	4665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4665.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1706	1706	1706	1706	1706	
5°	1702	1699	1697	1702	1706	162
15°	1642	1640	1649	1662	1667	463
25°	1517	1522	1541	1568	1579	699
35°	1338	1343	1372	1402	1414	837
45°	1108	1110	1136	1164	1172	854
55°	826	821	837	855	862	737
65°	522	510	518	522	531	519
75°	258	248	244	244	242	279
85°	62	55	48	42	37	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1706.0	1706.0	1706.0	1706.0	1706.0
2.5°	1707.8	1704.2	1700.7	1704.2	1707.8
5°	1702.5	1698.9	1697.2	1702.5	1706.0
7.5°	1693.6	1690.1	1690.1	1697.2	1700.7
10°	1679.5	1677.7	1681.2	1688.3	1695.4
12.5°	1661.8	1661.8	1667.1	1675.9	1683.0
15°	1642.3	1640.5	1649.4	1661.8	1667.1
17.5°	1615.8	1617.5	1629.9	1644.1	1651.1
20°	1589.2	1591.0	1603.4	1622.8	1631.7
22.5°	1555.6	1559.1	1573.3	1598.1	1606.9
25°	1516.6	1522.0	1541.4	1568.0	1578.6
27.5°	1477.7	1483.0	1504.3	1534.3	1548.5
30°	1435.2	1442.3	1463.6	1495.4	1507.8
32.5°	1387.5	1392.8	1419.3	1451.2	1463.6
35°	1337.9	1343.2	1371.5	1401.6	1414.0
37.5°	1288.4	1288.4	1316.7	1352.1	1364.5
40°	1228.2	1230.0	1260.0	1293.7	1300.7
42.5°	1171.6	1171.6	1198.1	1230.0	1242.3
45°	1107.8	1109.6	1136.2	1164.5	1171.6
47.5°	1042.4	1042.4	1065.4	1091.9	1099.0
50°	973.3	969.8	996.4	1017.6	1022.9
52.5°	902.6	897.2	918.5	936.2	943.3
55°	826.5	821.1	837.1	854.8	861.9
57.5°	746.8	739.7	757.4	773.4	776.9
60°	672.5	661.9	676.0	684.9	693.7
62.5°	598.2	585.8	596.4	601.7	608.8
65°	522.1	509.7	518.5	522.1	530.9
67.5°	449.5	440.7	442.4	447.7	451.3
70°	384.0	373.4	373.4	373.4	375.2
72.5°	323.9	307.9	306.2	307.9	307.9
75°	258.4	247.8	244.2	244.2	242.5
77.5°	207.1	192.9	191.1	187.6	184.1
80°	150.4	138.0	134.5	132.7	131.0
82.5°	104.4	93.8	90.3	86.7	81.4
85°	61.9	54.9	47.8	42.5	37.2
87.5°	23.0	21.2	17.7	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)