

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: P296192

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296192
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-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4674.0 lumens
Efficiency: N/A
Efficacy: 119.7 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

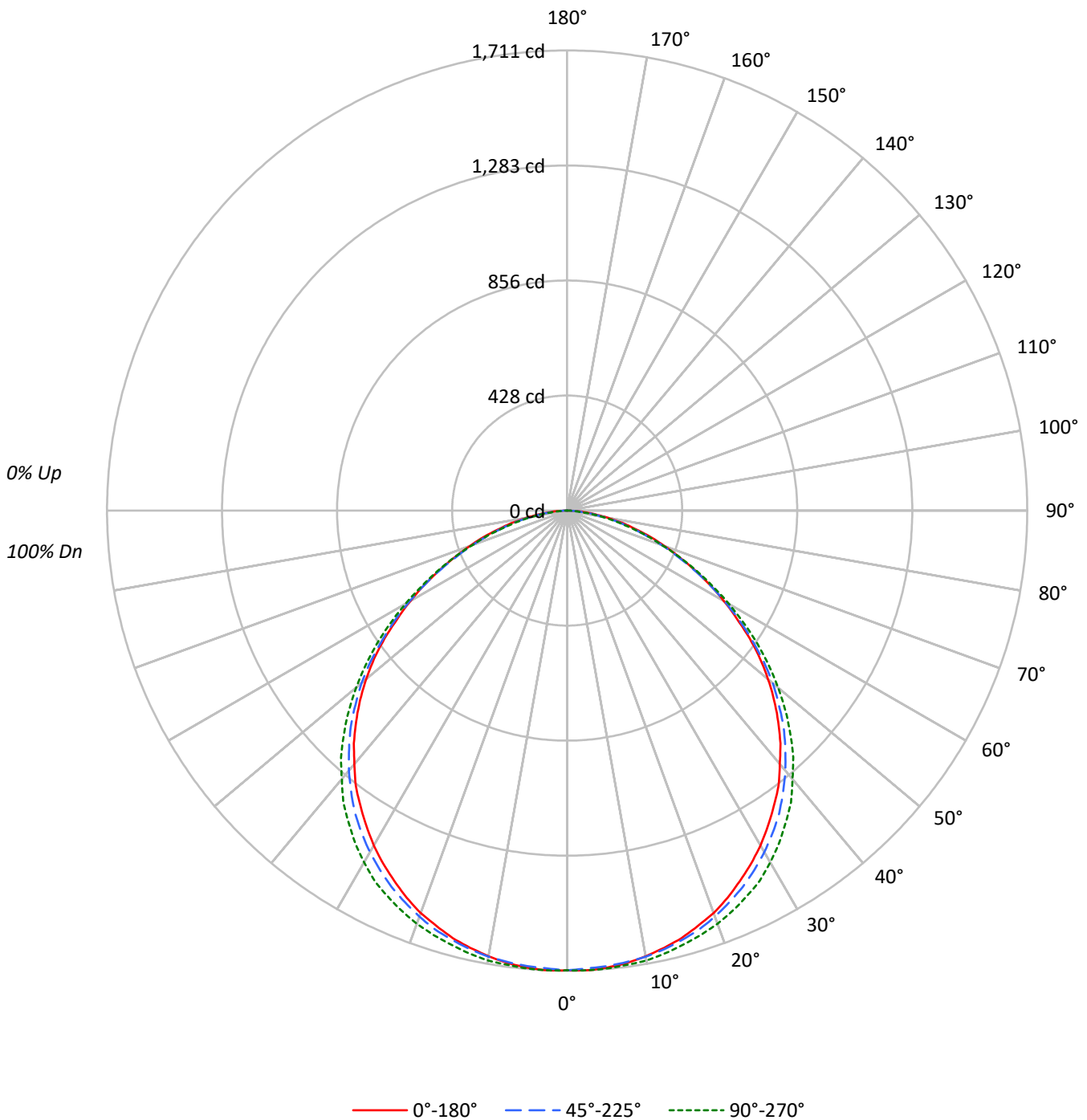
Input Watts (W): 39.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2300	2300	2300
5°	2304	2297	2309
10°	2299	2301	2321
15°	2292	2302	2327
20°	2280	2300	2341
25°	2256	2293	2348
30°	2234	2278	2347
35°	2202	2257	2327
40°	2161	2217	2289
45°	2112	2166	2234
50°	2041	2090	2145
55°	1943	1967	2026
60°	1813	1823	1870
65°	1665	1654	1693
70°	1514	1472	1479
75°	1346	1272	1263
80°	1168	1044	1017
85°	959	739	574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	3.5
10°-20°	467.3	10.0
20°-30°	713.3	15.3
30°-40°	860.0	18.4
40°-50°	877.0	18.8
50°-60°	750.6	16.1
60°-70°	517.0	11.1
70°-80°	265.0	5.7
80°-90°	61.7	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°	1342.8	28.7
0°-40°	2202.8	47.1
0°-60°	3830.3	81.9
0°-90°	4674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4674.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1709	1709	1709	1709	1709	
5°	1706	1702	1700	1706	1709	162
15°	1646	1644	1653	1665	1670	464
25°	1520	1525	1544	1571	1582	701
35°	1340	1346	1374	1404	1417	839
45°	1110	1112	1138	1167	1174	855
55°	828	823	839	856	864	739
65°	523	511	520	523	532	520
75°	259	248	245	245	243	279
85°	62	55	48	43	37	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1709.3	1709.3	1709.3	1709.3	1709.3
2.5°	1711.1	1707.5	1704.0	1707.5	1711.1
5°	1705.8	1702.2	1700.4	1705.8	1709.3
7.5°	1696.9	1693.3	1693.3	1700.4	1704.0
10°	1682.7	1680.9	1684.5	1691.6	1698.7
12.5°	1665.0	1665.0	1670.3	1679.2	1686.2
15°	1645.5	1643.7	1652.6	1665.0	1670.3
17.5°	1618.9	1620.6	1633.1	1647.2	1654.3
20°	1592.3	1594.0	1606.5	1626.0	1634.8
22.5°	1558.6	1562.1	1576.3	1601.1	1610.0
25°	1519.6	1524.9	1544.4	1571.0	1581.6
27.5°	1480.6	1485.9	1507.2	1537.3	1551.5
30°	1438.0	1445.1	1466.4	1498.3	1510.7
32.5°	1390.1	1395.5	1422.1	1454.0	1466.4
35°	1340.5	1345.8	1374.2	1404.3	1416.7
37.5°	1290.8	1290.8	1319.2	1354.7	1367.1
40°	1230.6	1232.3	1262.5	1296.2	1303.3
42.5°	1173.8	1173.8	1200.4	1232.3	1244.7
45°	1110.0	1111.8	1138.4	1166.7	1173.8
47.5°	1044.4	1044.4	1067.4	1094.0	1101.1
50°	975.2	971.7	998.3	1019.6	1024.9
52.5°	904.3	899.0	920.3	938.0	945.1
55°	828.1	822.7	838.7	856.4	863.5
57.5°	748.3	741.2	758.9	774.9	778.4
60°	673.8	663.2	677.3	686.2	695.1
62.5°	599.3	586.9	597.5	602.9	610.0
65°	523.1	510.7	519.5	523.1	531.9
67.5°	450.4	441.5	443.3	448.6	452.1
70°	384.8	374.1	374.1	374.1	375.9
72.5°	324.5	308.5	306.8	308.5	308.5
75°	258.9	248.2	244.7	244.7	242.9
77.5°	207.5	193.3	191.5	188.0	184.4
80°	150.7	138.3	134.8	133.0	131.2
82.5°	104.6	94.0	90.4	86.9	81.6
85°	62.1	55.0	47.9	42.6	37.2
87.5°	23.1	21.3	17.7	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)