

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: P296033

Luminaire Tested: **24RLN-LD5-45-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-45-UNV-L92765-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4016.0 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

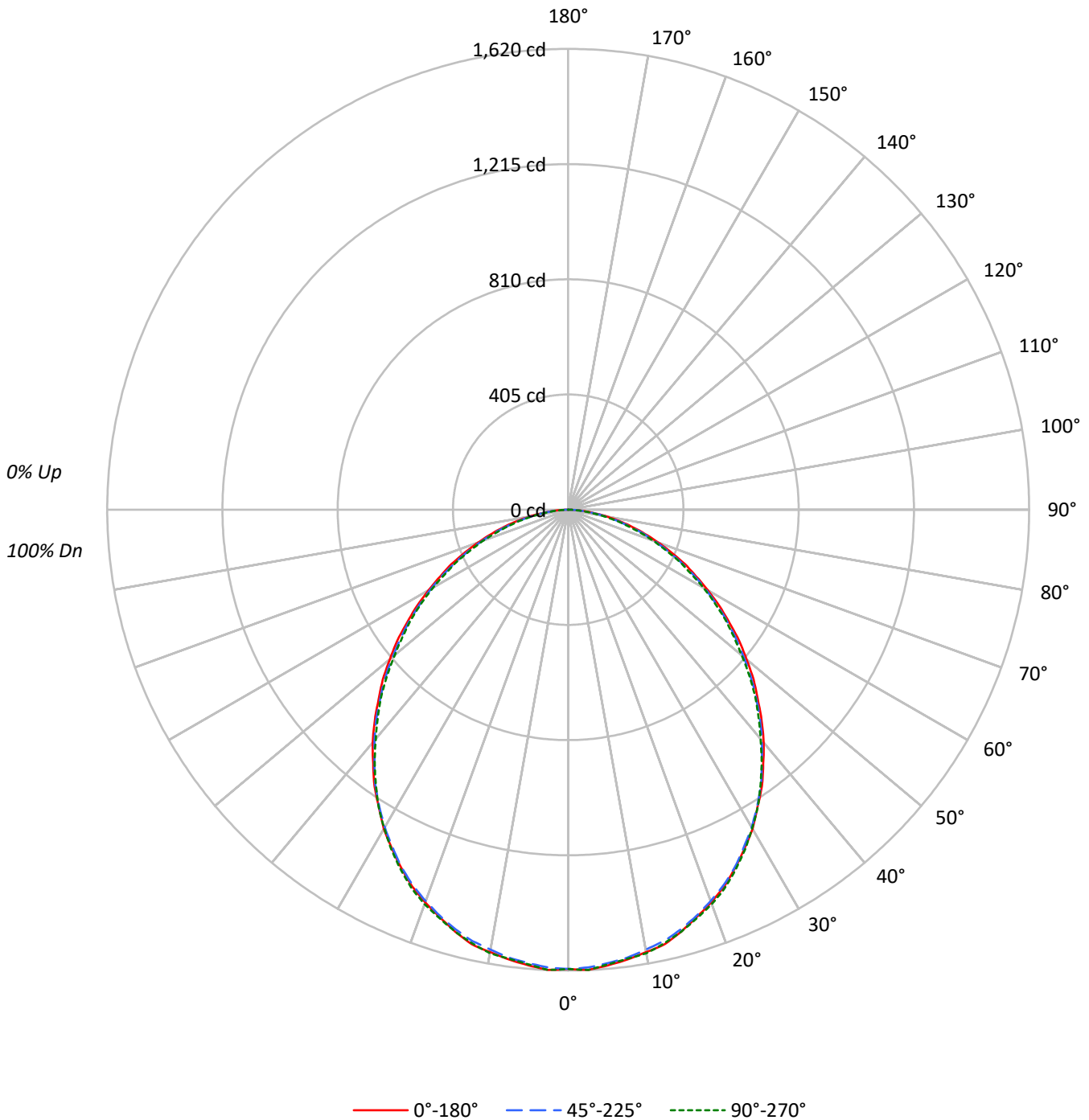
Input Watts (W): 31.899
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2172	2172	2172
5°	2172	2161	2166
10°	2158	2145	2163
15°	2139	2128	2139
20°	2104	2096	2113
25°	2062	2058	2070
30°	2013	2003	2009
35°	1949	1941	1937
40°	1877	1859	1848
45°	1792	1775	1768
50°	1711	1684	1665
55°	1620	1596	1580
60°	1524	1496	1478
65°	1440	1386	1373
70°	1320	1269	1244
75°	1212	1138	1091
80°	1064	994	934
85°	860	800	681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	3.8
10°-20°	431.8	10.8
20°-30°	638.7	15.9
30°-40°	737.2	18.4
40°-50°	720.0	17.9
50°-60°	608.0	15.1
60°-70°	433.0	10.8
70°-80°	234.5	5.8
80°-90°	60.5	1.5
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°	1222.9	30.4
0°-40°	1960.0	48.8
0°-60°	3288.0	81.9
0°-90°	4016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4016.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1608	1608	1600	1604	1604	153
15°	1535	1529	1528	1534	1535	432
25°	1389	1381	1386	1392	1394	639
35°	1187	1178	1182	1178	1179	741
45°	942	934	933	929	929	728
55°	691	682	680	674	674	619
65°	452	443	435	430	431	446
75°	233	225	219	214	210	247
85°	56	54	52	45	44	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1614.3	1614.3	1614.3	1614.3	1614.3
2.5°	1619.5	1613.0	1610.4	1611.7	1619.5
5°	1607.8	1607.8	1600.1	1604.0	1604.0
7.5°	1594.9	1596.2	1588.4	1594.9	1592.3
10°	1579.3	1575.4	1570.3	1580.6	1583.2
12.5°	1565.1	1556.0	1553.4	1559.9	1561.2
15°	1535.3	1528.8	1527.5	1534.0	1535.3
17.5°	1501.6	1502.9	1497.7	1506.8	1505.5
20°	1469.2	1466.6	1464.0	1474.4	1475.7
22.5°	1432.9	1425.2	1427.8	1436.8	1439.4
25°	1388.9	1381.1	1386.3	1391.5	1394.1
27.5°	1342.2	1338.4	1337.1	1343.5	1346.1
30°	1295.6	1289.1	1289.1	1296.9	1293.0
32.5°	1238.6	1233.4	1236.0	1238.6	1239.9
35°	1186.8	1177.7	1181.6	1177.7	1179.0
37.5°	1125.9	1119.4	1118.1	1116.8	1116.8
40°	1068.9	1063.7	1058.5	1058.5	1052.0
42.5°	1006.7	1000.2	997.6	993.7	989.8
45°	941.9	934.1	932.8	928.9	928.9
47.5°	883.6	871.9	870.6	862.9	862.9
50°	817.5	809.8	804.6	799.4	795.5
52.5°	757.9	750.2	742.4	737.2	733.3
55°	690.6	681.5	680.2	673.7	673.7
57.5°	629.7	621.9	616.7	608.9	610.2
60°	566.2	558.4	555.8	549.3	549.3
62.5°	506.6	500.1	496.2	489.7	484.6
65°	452.2	443.1	435.3	430.1	431.4
67.5°	392.6	382.2	378.3	373.1	369.2
70°	335.6	329.1	322.6	316.1	316.1
72.5°	282.4	276.0	272.1	264.3	261.7
75°	233.2	225.4	219.0	213.8	209.9
77.5°	184.0	176.2	172.3	165.8	165.8
80°	137.3	132.2	128.3	125.7	120.5
82.5°	94.6	92.0	88.1	84.2	80.3
85°	55.7	54.4	51.8	45.3	44.1
87.5°	22.0	22.0	19.4	18.1	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)