

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: P296030

Luminaire Tested: **24RLN-LD5-45-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296030
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-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3563.0 lumens
Efficiency: N/A
Efficacy: 113.3 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

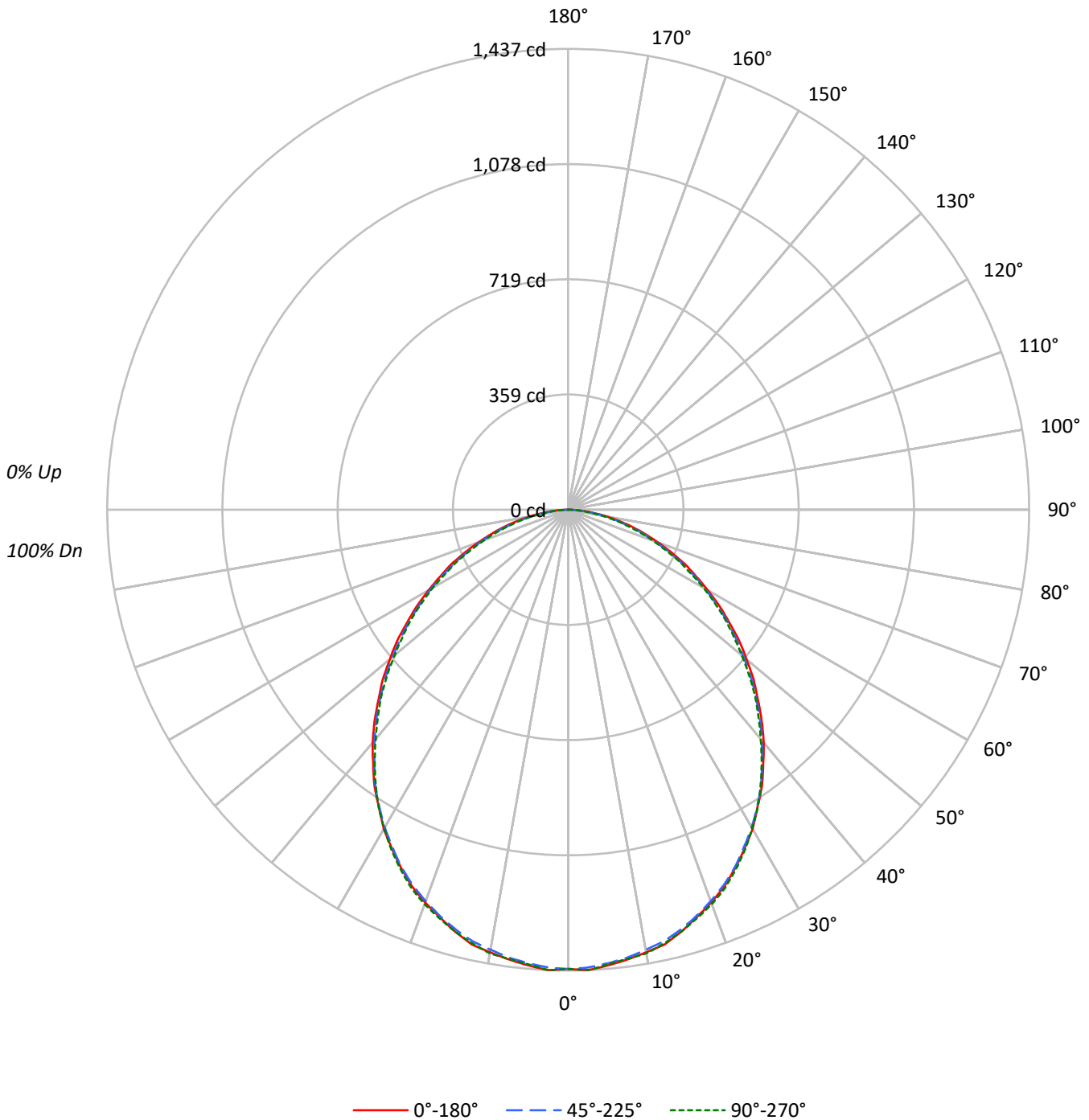
Input Watts (W): 31.434
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1927	1927	1927
5°	1927	1917	1922
10°	1914	1903	1919
15°	1897	1888	1897
20°	1866	1860	1875
25°	1829	1826	1836
30°	1786	1777	1782
35°	1729	1722	1718
40°	1666	1649	1639
45°	1590	1575	1568
50°	1518	1494	1477
55°	1437	1416	1402
60°	1352	1327	1312
65°	1277	1230	1219
70°	1171	1126	1103
75°	1076	1010	968
80°	944	882	828
85°	763	710	604



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	3.8
10°-20°	383.1	10.8
20°-30°	566.7	15.9
30°-40°	654.0	18.4
40°-50°	638.8	17.9
50°-60°	539.4	15.1
60°-70°	384.2	10.8
70°-80°	208.0	5.8
80°-90°	53.7	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°	1084.9	30.4
0°-40°	1738.9	48.8
0°-60°	2917.1	81.9
0°-90°	3563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1432	1432	1432	1432	1432	
5°	1426	1426	1420	1423	1423	135
15°	1362	1356	1355	1361	1362	384
25°	1232	1225	1230	1234	1237	567
35°	1053	1045	1048	1045	1046	657
45°	836	829	828	824	824	646
55°	613	605	604	598	598	549
65°	401	393	386	382	383	395
75°	207	200	194	190	186	219
85°	49	48	46	40	39	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1432.2	1432.2	1432.2	1432.2	1432.2
2.5°	1436.8	1431.1	1428.8	1429.9	1436.8
5°	1426.5	1426.5	1419.6	1423.0	1423.0
7.5°	1415.0	1416.1	1409.2	1415.0	1412.7
10°	1401.2	1397.7	1393.1	1402.3	1404.6
12.5°	1388.5	1380.5	1378.2	1383.9	1385.1
15°	1362.1	1356.4	1355.2	1361.0	1362.1
17.5°	1332.2	1333.4	1328.8	1336.8	1335.7
20°	1303.5	1301.2	1298.9	1308.1	1309.2
22.5°	1271.3	1264.4	1266.7	1274.7	1277.0
25°	1232.2	1225.3	1229.9	1234.5	1236.8
27.5°	1190.8	1187.4	1186.2	1192.0	1194.3
30°	1149.5	1143.7	1143.7	1150.6	1147.2
32.5°	1098.9	1094.3	1096.6	1098.9	1100.0
35°	1052.9	1044.9	1048.3	1044.9	1046.0
37.5°	998.9	993.1	992.0	990.8	990.8
40°	948.3	943.7	939.1	939.1	933.4
42.5°	893.1	887.4	885.1	881.6	878.2
45°	835.7	828.8	827.6	824.2	824.2
47.5°	783.9	773.6	772.4	765.5	765.5
50°	725.3	718.4	713.8	709.2	705.8
52.5°	672.4	665.5	658.6	654.0	650.6
55°	612.7	604.6	603.5	597.7	597.7
57.5°	558.6	551.7	547.1	540.2	541.4
60°	502.3	495.4	493.1	487.4	487.4
62.5°	449.4	443.7	440.2	434.5	429.9
65°	401.2	393.1	386.2	381.6	382.8
67.5°	348.3	339.1	335.6	331.0	327.6
70°	297.7	292.0	286.2	280.5	280.5
72.5°	250.6	244.8	241.4	234.5	232.2
75°	206.9	200.0	194.3	189.7	186.2
77.5°	163.2	156.3	152.9	147.1	147.1
80°	121.8	117.2	113.8	111.5	106.9
82.5°	83.9	81.6	78.2	74.7	71.3
85°	49.4	48.3	46.0	40.2	39.1
87.5°	19.5	19.5	17.2	16.1	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)