

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: P296166

Luminaire Tested: **24RLN-LD5-42-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296166
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-LD5-42-RDP-UNV-L82765-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3598.0 lumens
Efficiency: N/A
Efficacy: 120.9 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

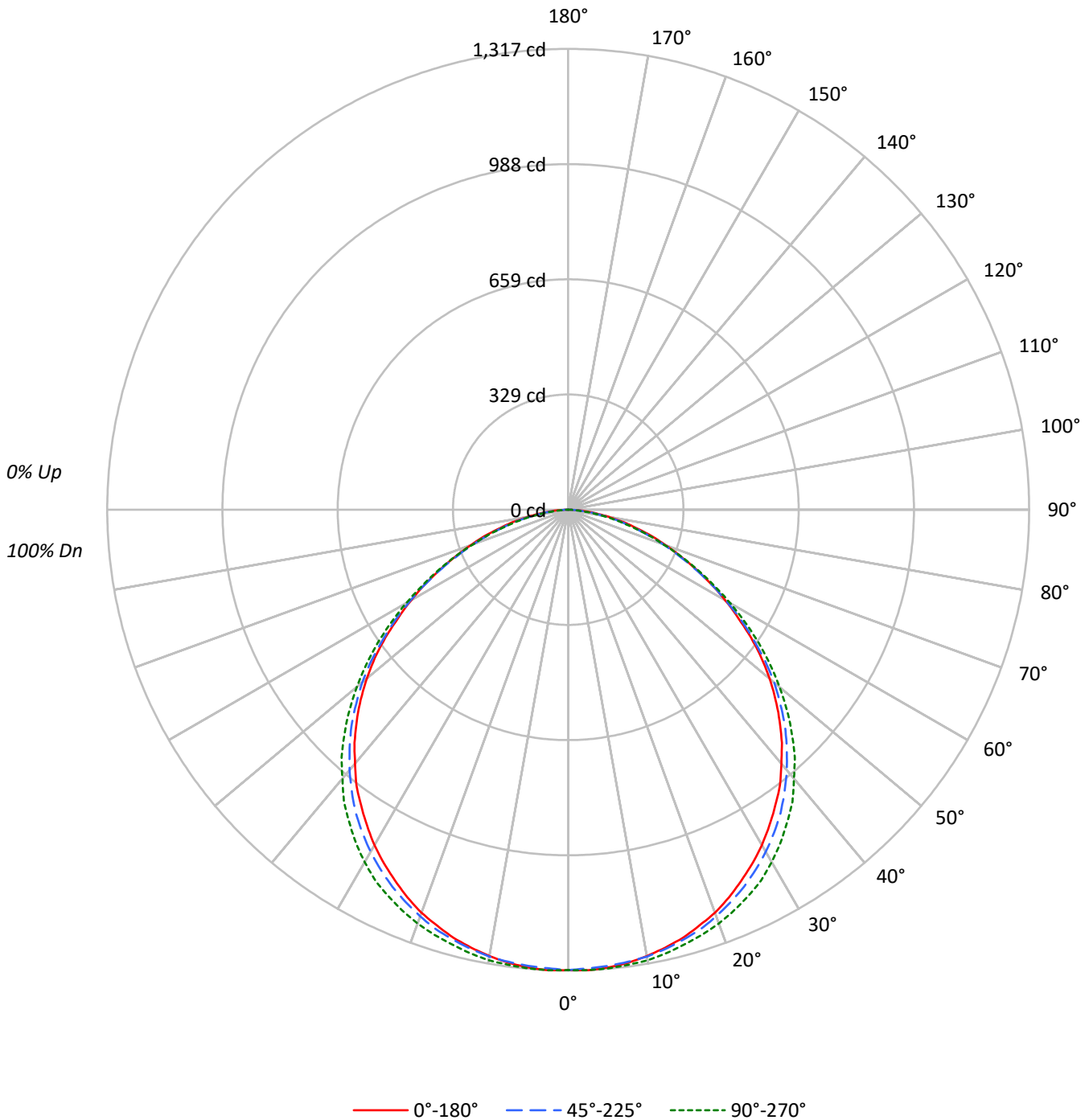
Input Watts (W): 29.76
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1770	1770	1770
5°	1774	1768	1777
10°	1770	1772	1787
15°	1764	1772	1791
20°	1755	1771	1802
25°	1737	1765	1807
30°	1720	1754	1807
35°	1695	1737	1791
40°	1664	1707	1762
45°	1626	1667	1719
50°	1571	1609	1651
55°	1495	1514	1559
60°	1396	1403	1440
65°	1282	1273	1304
70°	1165	1133	1138
75°	1036	979	972
80°	899	804	783
85°	738	570	443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	3.5
10°-20°	359.8	10.0
20°-30°	549.1	15.3
30°-40°	662.0	18.4
40°-50°	675.1	18.8
50°-60°	577.8	16.1
60°-70°	398.0	11.1
70°-80°	204.0	5.7
80°-90°	47.5	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°	1033.7	28.7
0°-40°	1695.7	47.1
0°-60°	2948.5	81.9
0°-90°	3598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3598.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1313	1310	1309	1313	1316	125
15°	1267	1265	1272	1282	1286	357
25°	1170	1174	1189	1209	1218	539
35°	1032	1036	1058	1081	1091	646
45°	854	856	876	898	904	658
55°	637	633	646	659	665	569
65°	403	393	400	403	410	400
75°	199	191	188	188	187	215
85°	48	42	37	33	29	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1315.8	1315.8	1315.8	1315.8	1315.8
2.5°	1317.2	1314.4	1311.7	1314.4	1317.2
5°	1313.1	1310.3	1309.0	1313.1	1315.8
7.5°	1306.2	1303.5	1303.5	1309.0	1311.7
10°	1295.3	1294.0	1296.7	1302.2	1307.6
12.5°	1281.7	1281.7	1285.8	1292.6	1298.1
15°	1266.7	1265.3	1272.1	1281.7	1285.8
17.5°	1246.2	1247.6	1257.1	1268.0	1273.5
20°	1225.7	1227.1	1236.6	1251.7	1258.5
22.5°	1199.8	1202.5	1213.4	1232.5	1239.4
25°	1169.8	1173.8	1188.9	1209.3	1217.5
27.5°	1139.7	1143.8	1160.2	1183.4	1194.3
30°	1107.0	1112.4	1128.8	1153.4	1162.9
32.5°	1070.1	1074.2	1094.7	1119.3	1128.8
35°	1031.9	1036.0	1057.8	1081.0	1090.6
37.5°	993.7	993.7	1015.5	1042.8	1052.4
40°	947.3	948.6	971.8	997.8	1003.2
42.5°	903.6	903.6	924.1	948.6	958.2
45°	854.5	855.8	876.3	898.1	903.6
47.5°	803.9	803.9	821.7	842.2	847.6
50°	750.7	748.0	768.5	784.8	788.9
52.5°	696.1	692.0	708.4	722.1	727.5
55°	637.4	633.3	645.6	659.3	664.7
57.5°	576.0	570.5	584.2	596.5	599.2
60°	518.7	510.5	521.4	528.2	535.1
62.5°	461.3	451.8	460.0	464.1	469.5
65°	402.7	393.1	399.9	402.7	409.5
67.5°	346.7	339.9	341.2	345.3	348.1
70°	296.2	288.0	288.0	288.0	289.4
72.5°	249.8	237.5	236.1	237.5	237.5
75°	199.3	191.1	188.4	188.4	187.0
77.5°	159.7	148.8	147.4	144.7	142.0
80°	116.0	106.5	103.7	102.4	101.0
82.5°	80.5	72.3	69.6	66.9	62.8
85°	47.8	42.3	36.9	32.8	28.7
87.5°	17.7	16.4	13.6	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)