

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: P296172

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296172
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-LD5-45-RDP-UNV-L82765-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3682.0 lumens
Efficiency: N/A
Efficacy: 116.1 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

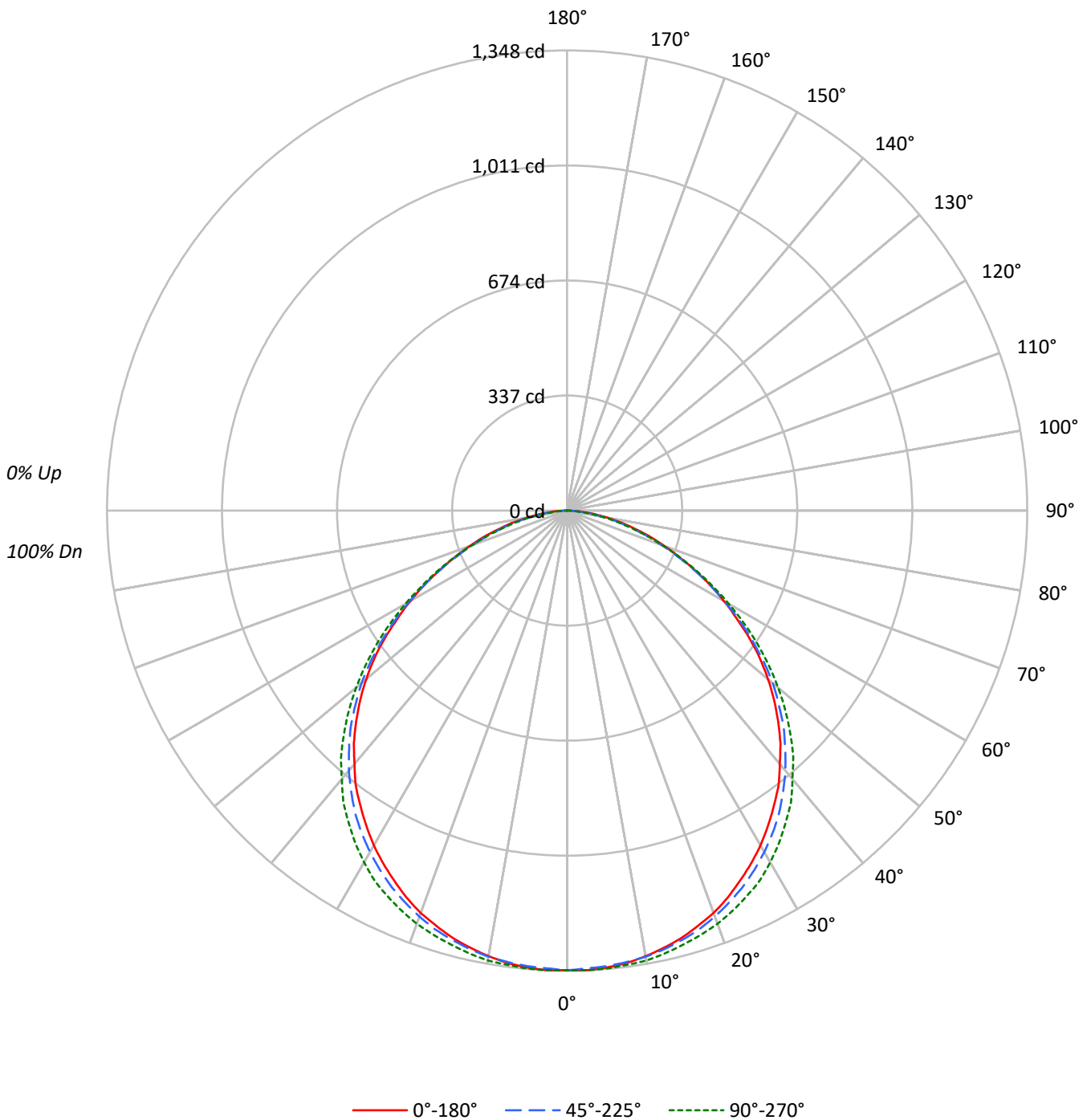
Input Watts (W): 31.713
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1812	1812	1812
5°	1815	1809	1819
10°	1811	1813	1828
15°	1806	1813	1833
20°	1796	1812	1844
25°	1777	1806	1850
30°	1760	1795	1849
35°	1735	1778	1833
40°	1703	1747	1803
45°	1664	1706	1760
50°	1608	1646	1690
55°	1530	1550	1596
60°	1428	1436	1473
65°	1312	1303	1334
70°	1192	1159	1165
75°	1060	1002	995
80°	920	823	801
85°	755	582	452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	3.5
10°-20°	368.1	10.0
20°-30°	561.9	15.3
30°-40°	677.5	18.4
40°-50°	690.9	18.8
50°-60°	591.2	16.1
60°-70°	407.3	11.1
70°-80°	208.8	5.7
80°-90°	48.6	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°	1057.8	28.7
0°-40°	1735.3	47.1
0°-60°	3017.4	81.9
0°-90°	3682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1346	1346	1346	1346	1346	
5°	1344	1341	1340	1344	1346	128
15°	1296	1295	1302	1312	1316	366
25°	1197	1201	1217	1238	1246	552
35°	1056	1060	1082	1106	1116	661
45°	874	876	897	919	925	674
55°	652	648	661	675	680	582
65°	412	402	409	412	419	409
75°	204	196	193	193	191	220
85°	49	43	38	34	29	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1346.5	1346.5	1346.5	1346.5	1346.5
2.5°	1347.9	1345.1	1342.3	1345.1	1347.9
5°	1343.7	1340.9	1339.5	1343.7	1346.5
7.5°	1336.7	1334.0	1334.0	1339.5	1342.3
10°	1325.6	1324.2	1327.0	1332.6	1338.1
12.5°	1311.6	1311.6	1315.8	1322.8	1328.4
15°	1296.2	1294.8	1301.8	1311.6	1315.8
17.5°	1275.3	1276.7	1286.5	1297.6	1303.2
20°	1254.3	1255.7	1265.5	1280.9	1287.9
22.5°	1227.8	1230.6	1241.8	1261.3	1268.3
25°	1197.1	1201.3	1216.6	1237.6	1246.0
27.5°	1166.3	1170.5	1187.3	1211.0	1222.2
30°	1132.8	1138.4	1155.2	1180.3	1190.1
32.5°	1095.1	1099.3	1120.2	1145.4	1155.2
35°	1056.0	1060.2	1082.5	1106.3	1116.0
37.5°	1016.9	1016.9	1039.2	1067.2	1076.9
40°	969.4	970.8	994.5	1021.1	1026.7
42.5°	924.7	924.7	945.6	970.8	980.6
45°	874.4	875.8	896.7	919.1	924.7
47.5°	822.7	822.7	840.9	861.8	867.4
50°	768.2	765.4	786.4	803.2	807.4
52.5°	712.4	708.2	724.9	738.9	744.5
55°	652.3	648.1	660.7	674.7	680.2
57.5°	589.5	583.9	597.8	610.4	613.2
60°	530.8	522.4	533.6	540.6	547.5
62.5°	472.1	462.3	470.7	474.9	480.5
65°	412.1	402.3	409.3	412.1	419.0
67.5°	354.8	347.8	349.2	353.4	356.2
70°	303.1	294.7	294.7	294.7	296.1
72.5°	255.6	243.0	241.6	243.0	243.0
75°	203.9	195.6	192.8	192.8	191.4
77.5°	163.4	152.3	150.9	148.1	145.3
80°	118.7	109.0	106.2	104.8	103.4
82.5°	82.4	74.0	71.2	68.4	64.3
85°	48.9	43.3	37.7	33.5	29.3
87.5°	18.2	16.8	14.0	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)