

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: P296179

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296179
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-LD5-50-RDP-UNV-L82765-W2A1-U-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3798.0 lumens
Efficiency: N/A
Efficacy: 108.6 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

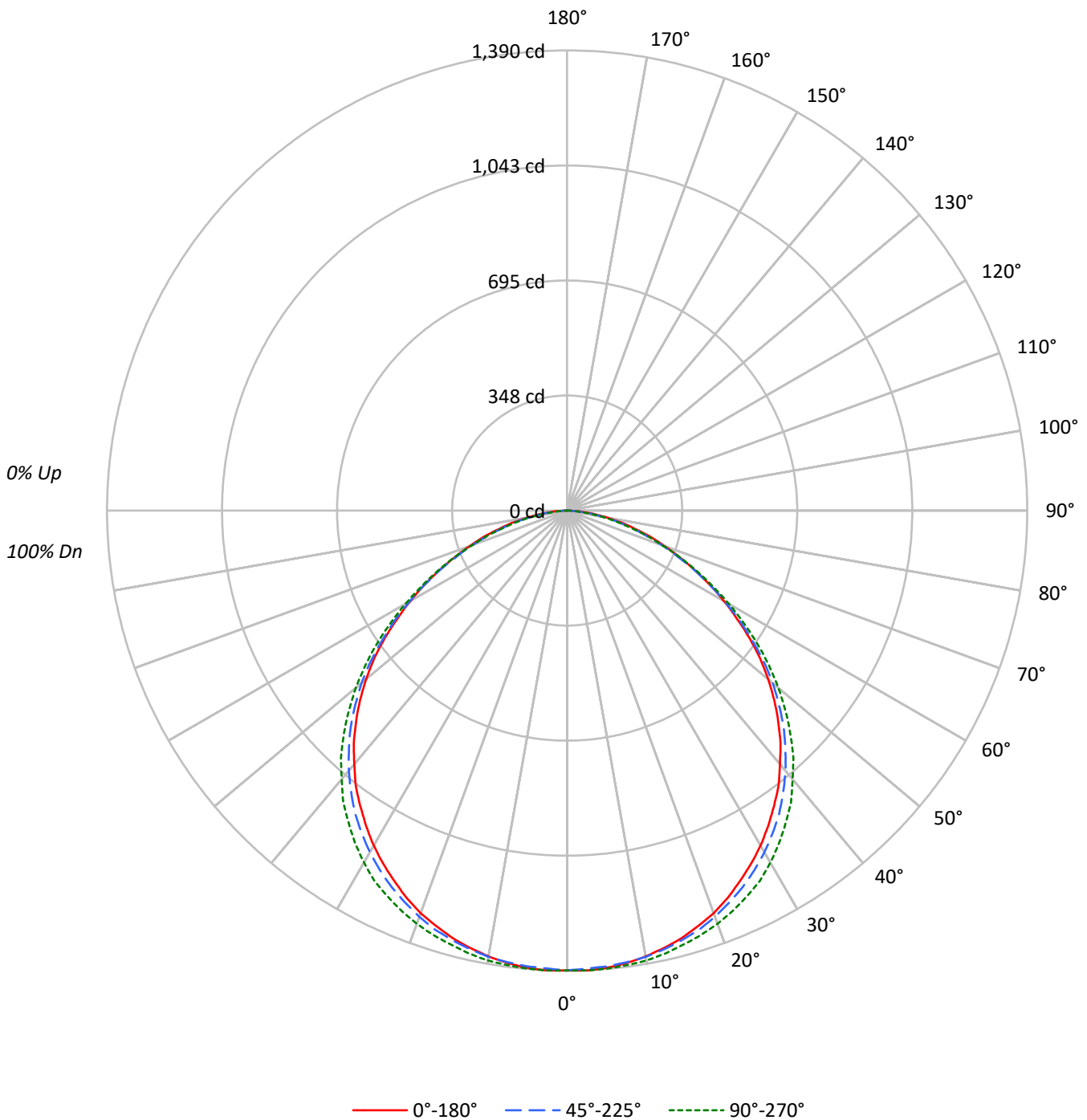
Input Watts (W): 34.968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1869	1869	1869
5°	1872	1866	1876
10°	1868	1870	1886
15°	1863	1870	1891
20°	1853	1869	1902
25°	1833	1863	1908
30°	1815	1851	1907
35°	1789	1834	1891
40°	1756	1802	1860
45°	1716	1760	1815
50°	1659	1698	1743
55°	1578	1599	1646
60°	1473	1481	1520
65°	1353	1344	1376
70°	1230	1196	1202
75°	1094	1033	1026
80°	949	848	826
85°	778	601	468



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	3.5
10°-20°	379.7	10.0
20°-30°	579.7	15.3
30°-40°	698.8	18.4
40°-50°	712.6	18.8
50°-60°	609.9	16.1
60°-70°	420.1	11.1
70°-80°	215.4	5.7
80°-90°	50.1	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°	1091.1	28.7
0°-40°	1789.9	47.1
0°-60°	3112.4	81.9
0°-90°	3798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1386	1383	1382	1386	1389	132
15°	1337	1336	1343	1353	1357	377
25°	1235	1239	1255	1277	1285	569
35°	1089	1094	1117	1141	1151	681
45°	902	903	925	948	954	695
55°	673	668	682	696	702	600
65°	425	415	422	425	432	422
75°	210	202	199	199	197	227
85°	50	45	39	35	30	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1388.9	1388.9	1388.9	1388.9	1388.9
2.5°	1390.4	1387.5	1384.6	1387.5	1390.4
5°	1386.1	1383.2	1381.7	1386.1	1388.9
7.5°	1378.9	1376.0	1376.0	1381.7	1384.6
10°	1367.3	1365.9	1368.8	1374.5	1380.3
12.5°	1352.9	1352.9	1357.2	1364.4	1370.2
15°	1337.1	1335.6	1342.8	1352.9	1357.2
17.5°	1315.5	1316.9	1327.0	1338.5	1344.3
20°	1293.8	1295.3	1305.4	1321.2	1328.4
22.5°	1266.5	1269.4	1280.9	1301.1	1308.3
25°	1234.8	1239.1	1254.9	1276.6	1285.2
27.5°	1203.1	1207.4	1224.7	1249.2	1260.7
30°	1168.5	1174.3	1191.6	1217.5	1227.6
32.5°	1129.6	1133.9	1155.5	1181.5	1191.6
35°	1089.3	1093.6	1116.6	1141.1	1151.2
37.5°	1048.9	1048.9	1072.0	1100.8	1110.9
40°	999.9	1001.4	1025.9	1053.2	1059.0
42.5°	953.8	953.8	975.4	1001.4	1011.5
45°	901.9	903.4	925.0	948.1	953.8
47.5°	848.6	848.6	867.4	889.0	894.7
50°	792.4	789.6	811.2	828.5	832.8
52.5°	734.8	730.5	747.8	762.2	768.0
55°	672.9	668.5	681.5	695.9	701.7
57.5°	608.0	602.3	616.7	629.6	632.5
60°	547.5	538.9	550.4	557.6	564.8
62.5°	487.0	476.9	485.6	489.9	495.6
65°	425.0	415.0	422.2	425.0	432.2
67.5°	366.0	358.8	360.2	364.5	367.4
70°	312.7	304.0	304.0	304.0	305.5
72.5°	263.7	250.7	249.3	250.7	250.7
75°	210.4	201.7	198.8	198.8	197.4
77.5°	168.6	157.0	155.6	152.7	149.8
80°	122.5	112.4	109.5	108.1	106.6
82.5°	85.0	76.4	73.5	70.6	66.3
85°	50.4	44.7	38.9	34.6	30.3
87.5°	18.7	17.3	14.4	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)