

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: P296248

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296248
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-L93050-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2933.0 lumens
Efficiency: N/A
Efficacy: 90.9 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

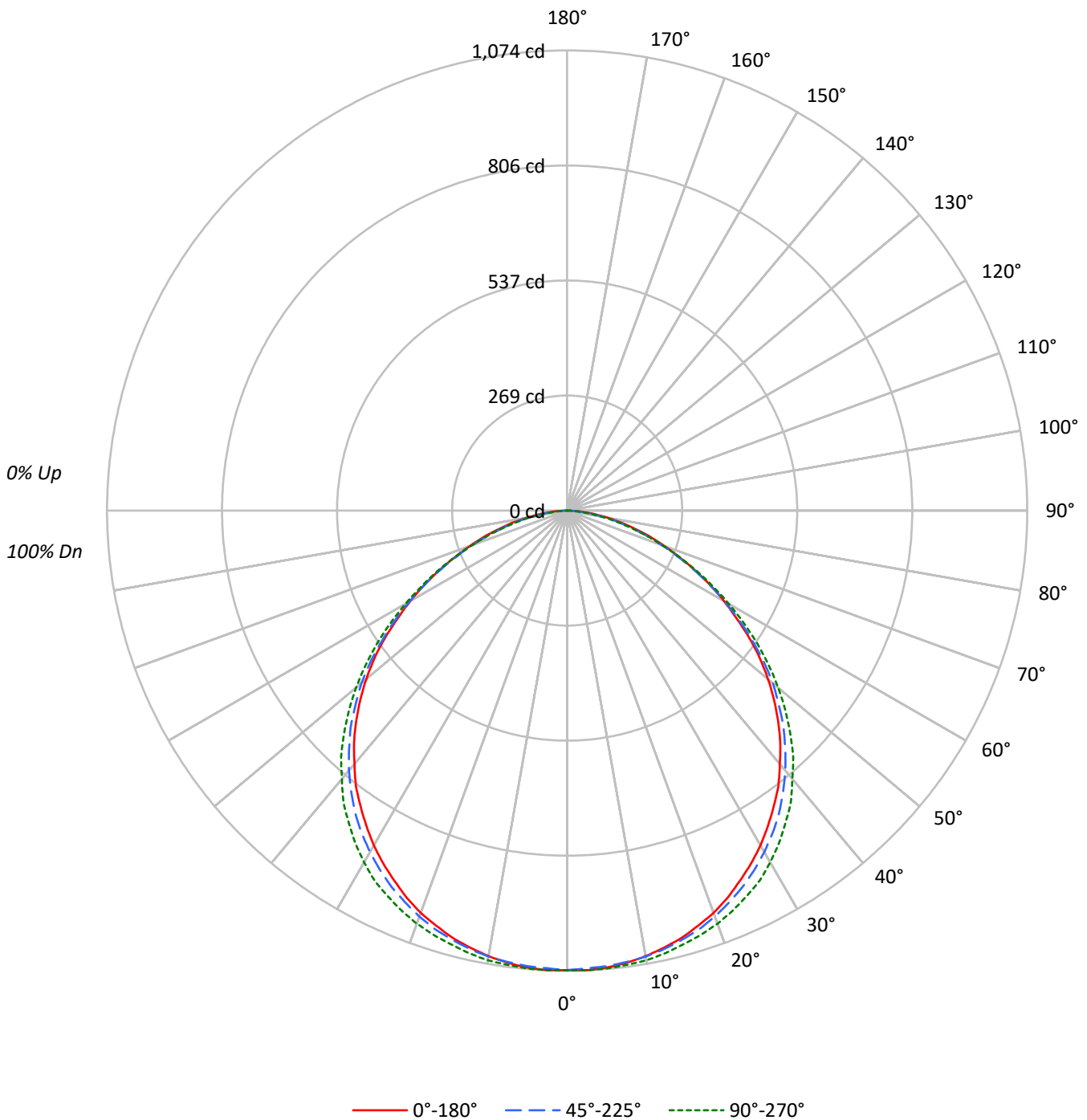
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1443	1443	1443
5°	1446	1441	1449
10°	1443	1444	1456
15°	1438	1444	1460
20°	1431	1443	1469
25°	1416	1439	1473
30°	1402	1430	1473
35°	1382	1416	1460
40°	1356	1391	1436
45°	1325	1359	1402
50°	1281	1311	1346
55°	1219	1235	1271
60°	1138	1144	1174
65°	1045	1038	1063
70°	950	924	928
75°	844	798	792
80°	733	656	638
85°	601	463	361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	3.5
10°-20°	293.3	10.0
20°-30°	447.6	15.3
30°-40°	539.7	18.4
40°-50°	550.3	18.8
50°-60°	471.0	16.1
60°-70°	324.4	11.1
70°-80°	166.3	5.7
80°-90°	38.7	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°	842.6	28.7
0°-40°	1382.3	47.1
0°-60°	2403.6	81.9
0°-90°	2933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1073	1073	1073	1073	1073	
5°	1070	1068	1067	1070	1073	102
15°	1033	1031	1037	1045	1048	291
25°	954	957	969	986	992	440
35°	841	844	862	881	889	526
45°	696	698	714	732	737	537
55°	520	516	526	537	542	464
65°	328	320	326	328	334	326
75°	162	156	154	154	152	175
85°	39	34	30	27	23	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1072.6	1072.6	1072.6	1072.6	1072.6
2.5°	1073.7	1071.5	1069.3	1071.5	1073.7
5°	1070.4	1068.2	1067.0	1070.4	1072.6
7.5°	1064.8	1062.6	1062.6	1067.0	1069.3
10°	1055.9	1054.8	1057.0	1061.5	1065.9
12.5°	1044.8	1044.8	1048.1	1053.7	1058.1
15°	1032.6	1031.4	1037.0	1044.8	1048.1
17.5°	1015.9	1017.0	1024.8	1033.7	1038.1
20°	999.2	1000.3	1008.1	1020.3	1025.9
22.5°	978.0	980.3	989.2	1004.7	1010.3
25°	953.6	956.9	969.1	985.8	992.5
27.5°	929.1	932.4	945.8	964.7	973.6
30°	902.4	906.8	920.2	940.2	948.0
32.5°	872.3	875.7	892.4	912.4	920.2
35°	841.2	844.5	862.3	881.2	889.0
37.5°	810.0	810.0	827.8	850.1	857.9
40°	772.2	773.3	792.2	813.4	817.8
42.5°	736.6	736.6	753.3	773.3	781.1
45°	696.5	697.6	714.3	732.1	736.6
47.5°	655.4	655.4	669.8	686.5	691.0
50°	612.0	609.7	626.4	639.8	643.1
52.5°	567.5	564.1	577.5	588.6	593.1
55°	519.6	516.3	526.3	537.4	541.9
57.5°	469.5	465.1	476.2	486.2	488.5
60°	422.8	416.1	425.0	430.6	436.2
62.5°	376.1	368.3	375.0	378.3	382.8
65°	328.2	320.4	326.0	328.2	333.8
67.5°	282.6	277.1	278.2	281.5	283.7
70°	241.4	234.8	234.8	234.8	235.9
72.5°	203.6	193.6	192.5	193.6	193.6
75°	162.4	155.8	153.5	153.5	152.4
77.5°	130.2	121.3	120.2	117.9	115.7
80°	94.6	86.8	84.6	83.4	82.3
82.5°	65.6	59.0	56.7	54.5	51.2
85°	38.9	34.5	30.0	26.7	23.4
87.5°	14.5	13.4	11.1	10.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)