

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: P296006

Luminaire Tested: **24RLN-LD5-31-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296006
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-LD5-31-UNV-L92765-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2738.0 lumens
Efficiency: N/A
Efficacy: 127.4 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

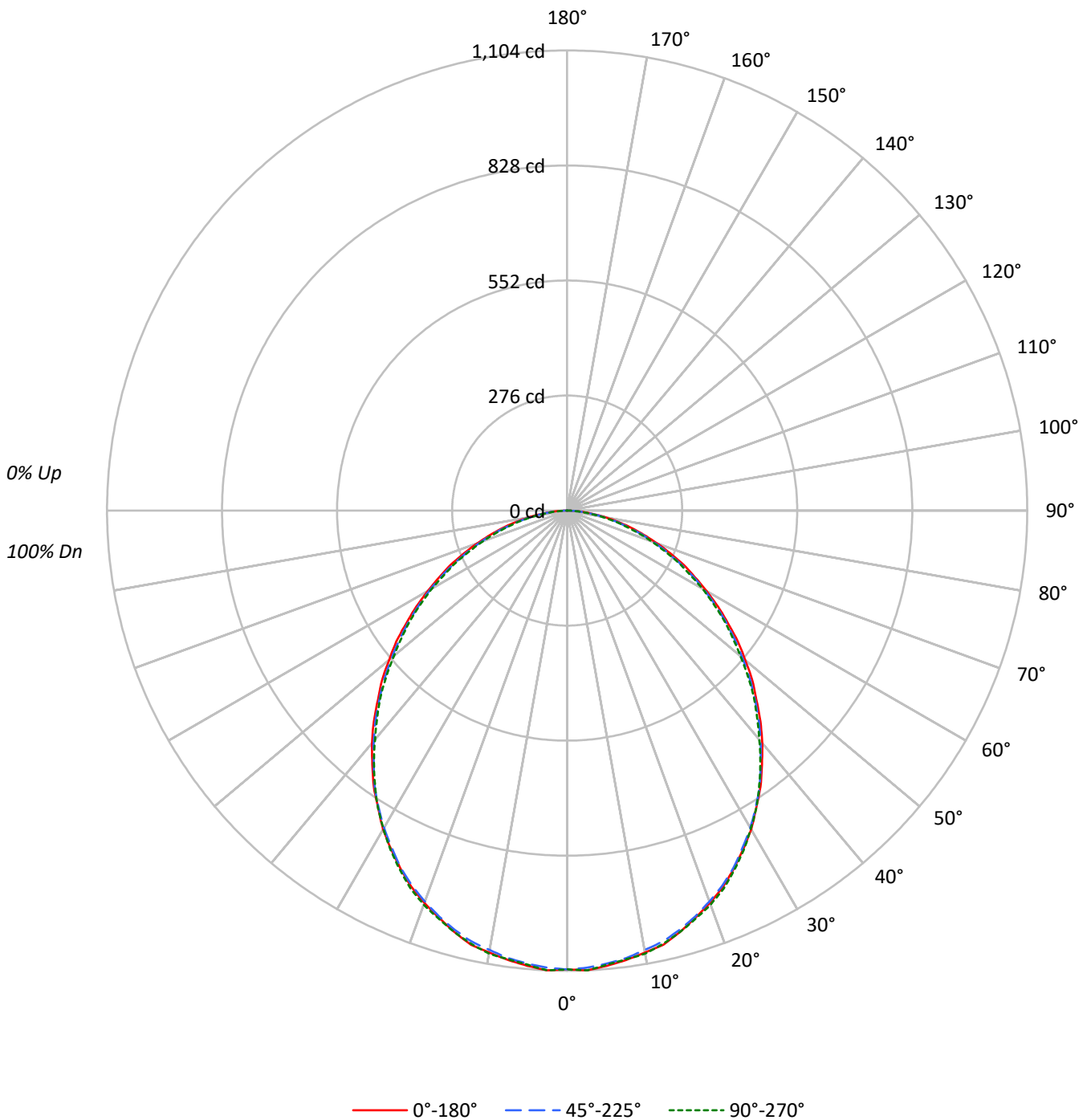
Input Watts (W): 21.483
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1481	1481	1481
5°	1481	1473	1477
10°	1471	1463	1475
15°	1458	1451	1458
20°	1434	1429	1441
25°	1406	1403	1411
30°	1372	1365	1370
35°	1329	1323	1320
40°	1280	1268	1260
45°	1222	1210	1205
50°	1167	1148	1135
55°	1104	1088	1077
60°	1039	1020	1008
65°	982	945	936
70°	900	865	848
75°	827	776	744
80°	725	677	636
85°	587	545	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	3.8
10°-20°	294.4	10.8
20°-30°	435.5	15.9
30°-40°	502.6	18.4
40°-50°	490.9	17.9
50°-60°	414.5	15.1
60°-70°	295.2	10.8
70°-80°	159.9	5.8
80°-90°	41.2	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°	833.7	30.4
0°-40°	1336.3	48.8
0°-60°	2241.6	81.9
0°-90°	2738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2738.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1096	1096	1091	1094	1094	104
15°	1047	1042	1041	1046	1047	295
25°	947	942	945	949	950	436
35°	809	803	806	803	804	505
45°	642	637	636	633	633	497
55°	471	465	464	459	459	422
65°	308	302	297	293	294	304
75°	159	154	149	146	143	168
85°	38	37	35	31	30	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1100.6	1100.6	1100.6	1100.6	1100.6
2.5°	1104.1	1099.7	1097.9	1098.8	1104.1
5°	1096.2	1096.2	1090.9	1093.5	1093.5
7.5°	1087.3	1088.2	1082.9	1087.3	1085.6
10°	1076.7	1074.1	1070.6	1077.6	1079.4
12.5°	1067.0	1060.8	1059.1	1063.5	1064.4
15°	1046.7	1042.3	1041.4	1045.8	1046.7
17.5°	1023.8	1024.6	1021.1	1027.3	1026.4
20°	1001.7	999.9	998.1	1005.2	1006.1
22.5°	976.9	971.6	973.4	979.6	981.4
25°	946.9	941.6	945.1	948.7	950.4
27.5°	915.1	912.5	911.6	916.0	917.8
30°	883.3	878.9	878.9	884.2	881.5
32.5°	844.4	840.9	842.7	844.4	845.3
35°	809.1	802.9	805.6	802.9	803.8
37.5°	767.6	763.2	762.3	761.4	761.4
40°	728.7	725.2	721.7	721.7	717.2
42.5°	686.3	681.9	680.1	677.5	674.8
45°	642.2	636.9	636.0	633.3	633.3
47.5°	602.4	594.5	593.6	588.3	588.3
50°	557.4	552.1	548.5	545.0	542.3
52.5°	516.7	511.4	506.1	502.6	500.0
55°	470.8	464.6	463.7	459.3	459.3
57.5°	429.3	424.0	420.5	415.2	416.0
60°	386.0	380.7	378.9	374.5	374.5
62.5°	345.4	341.0	338.3	333.9	330.4
65°	308.3	302.1	296.8	293.3	294.1
67.5°	267.6	260.6	257.9	254.4	251.7
70°	228.8	224.4	219.9	215.5	215.5
72.5°	192.6	188.1	185.5	180.2	178.4
75°	159.0	153.7	149.3	145.7	143.1
77.5°	125.4	120.1	117.5	113.1	113.1
80°	93.6	90.1	87.4	85.7	82.1
82.5°	64.5	62.7	60.1	57.4	54.8
85°	38.0	37.1	35.3	30.9	30.0
87.5°	15.0	15.0	13.2	12.4	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)