

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: P296153

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296153
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-LD5-36-RDP-UNV-L82765-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2875.0 lumens
Efficiency: N/A
Efficacy: 114.9 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

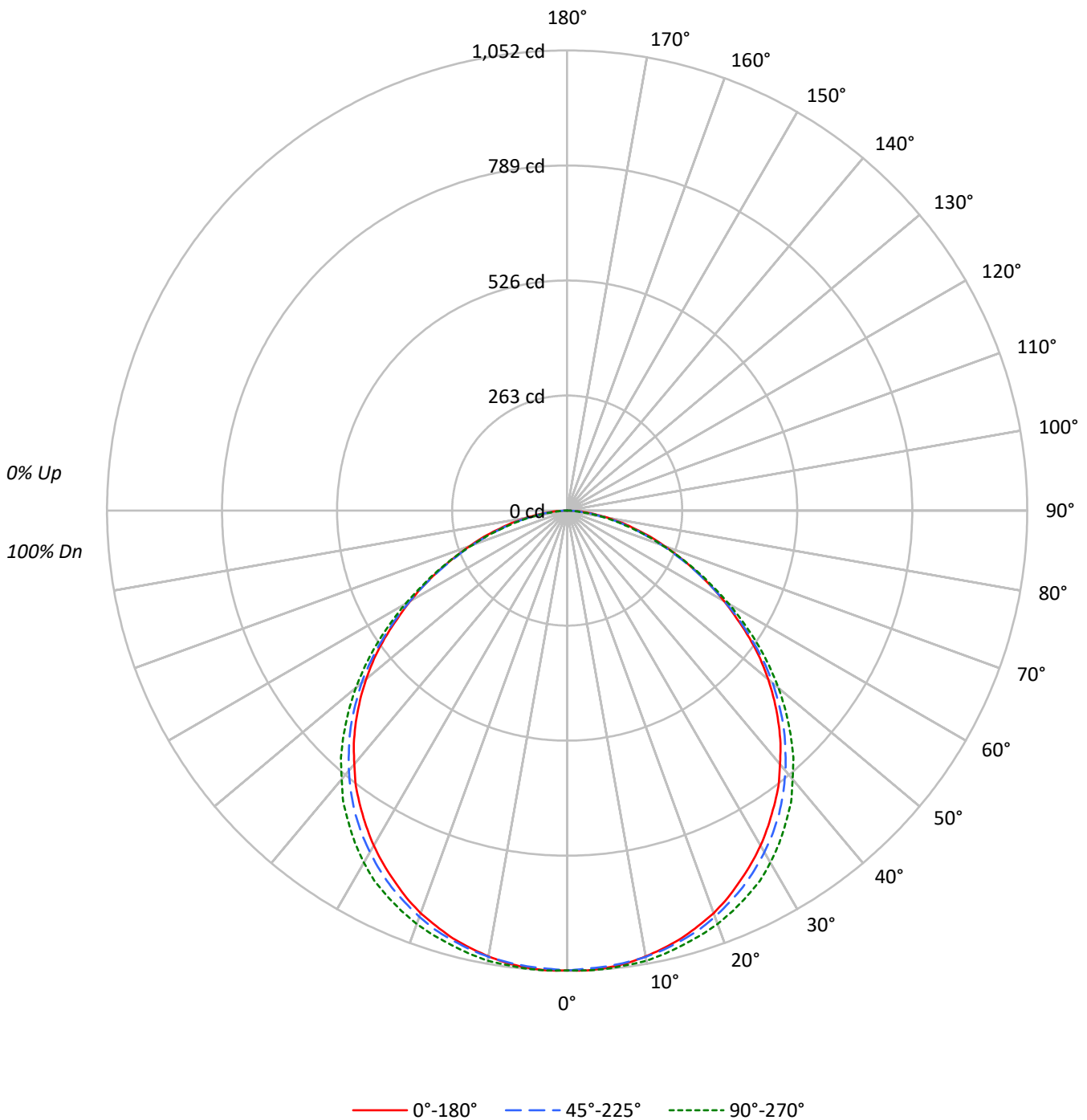
Input Watts (W): 25.017
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1415	1415	1415
5°	1417	1413	1420
10°	1414	1416	1428
15°	1410	1416	1431
20°	1402	1415	1440
25°	1388	1410	1444
30°	1374	1401	1444
35°	1354	1388	1431
40°	1329	1364	1408
45°	1299	1332	1374
50°	1256	1285	1320
55°	1195	1210	1246
60°	1115	1121	1150
65°	1024	1018	1042
70°	931	905	910
75°	828	782	777
80°	718	642	625
85°	590	454	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	3.5
10°-20°	287.5	10.0
20°-30°	438.8	15.3
30°-40°	529.0	18.4
40°-50°	539.4	18.8
50°-60°	461.7	16.1
60°-70°	318.0	11.1
70°-80°	163.0	5.7
80°-90°	37.9	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°	825.9	28.7
0°-40°	1354.9	47.1
0°-60°	2356.0	81.9
0°-90°	2875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1049	1047	1046	1049	1051	100
15°	1012	1011	1016	1024	1027	285
25°	935	938	950	966	973	431
35°	824	828	845	864	871	516
45°	683	684	700	718	722	526
55°	509	506	516	527	531	454
65°	322	314	320	322	327	320
75°	159	153	150	150	149	172
85°	38	34	29	26	23	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1051.4	1051.4	1051.4	1051.4	1051.4
2.5°	1052.5	1050.3	1048.1	1050.3	1052.5
5°	1049.2	1047.0	1045.9	1049.2	1051.4
7.5°	1043.8	1041.6	1041.6	1045.9	1048.1
10°	1035.0	1033.9	1036.1	1040.5	1044.9
12.5°	1024.1	1024.1	1027.4	1032.9	1037.2
15°	1012.1	1011.0	1016.5	1024.1	1027.4
17.5°	995.8	996.9	1004.5	1013.2	1017.6
20°	979.4	980.5	988.1	1000.1	1005.6
22.5°	958.7	960.9	969.6	984.9	990.3
25°	934.7	938.0	950.0	966.3	972.9
27.5°	910.7	914.0	927.1	945.6	954.3
30°	884.5	888.9	902.0	921.6	929.2
32.5°	855.1	858.4	874.7	894.3	902.0
35°	824.5	827.8	845.3	863.8	871.4
37.5°	794.0	794.0	811.5	833.3	840.9
40°	756.9	758.0	776.6	797.3	801.6
42.5°	722.0	722.0	738.4	758.0	765.6
45°	682.8	683.8	700.2	717.7	722.0
47.5°	642.4	642.4	656.6	672.9	677.3
50°	599.9	597.7	614.0	627.1	630.4
52.5°	556.2	553.0	566.1	577.0	581.3
55°	509.3	506.1	515.9	526.8	531.2
57.5°	460.3	455.9	466.8	476.6	478.8
60°	414.5	407.9	416.6	422.1	427.5
62.5°	368.6	361.0	367.6	370.8	375.2
65°	321.7	314.1	319.6	321.7	327.2
67.5°	277.0	271.6	272.7	275.9	278.1
70°	236.7	230.1	230.1	230.1	231.2
72.5°	199.6	189.8	188.7	189.8	189.8
75°	159.2	152.7	150.5	150.5	149.4
77.5°	127.6	118.9	117.8	115.6	113.4
80°	92.7	85.1	82.9	81.8	80.7
82.5°	64.3	57.8	55.6	53.4	50.2
85°	38.2	33.8	29.4	26.2	22.9
87.5°	14.2	13.1	10.9	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)