

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: P296297

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296297
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-L92765-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2815.0 lumens
Efficiency: N/A
Efficacy: 109.3 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

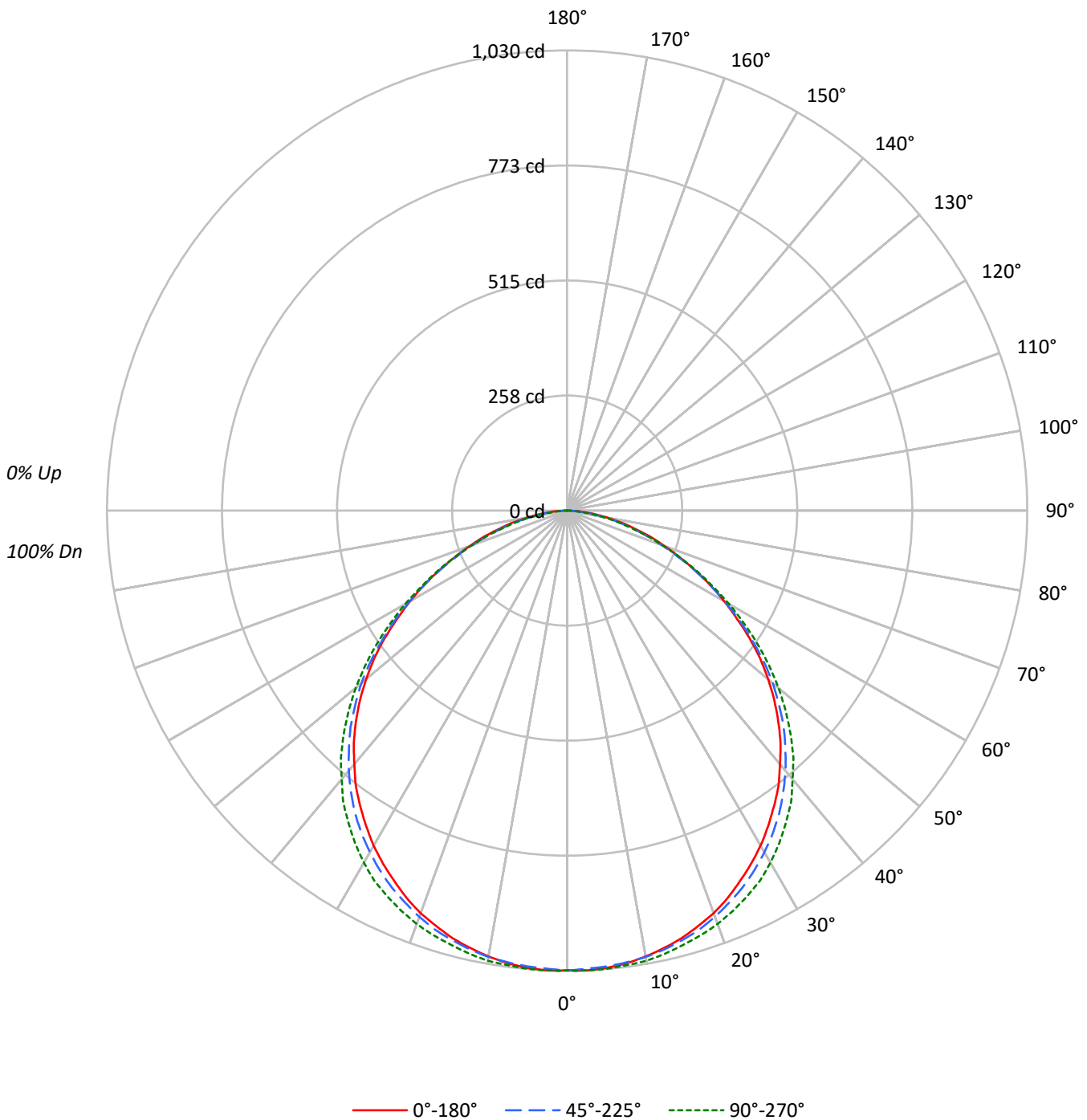
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1385	1385	1385
5°	1388	1383	1390
10°	1385	1386	1398
15°	1380	1386	1401
20°	1373	1385	1410
25°	1359	1381	1414
30°	1346	1372	1414
35°	1326	1359	1402
40°	1302	1335	1379
45°	1272	1305	1345
50°	1229	1258	1292
55°	1170	1185	1220
60°	1092	1098	1126
65°	1003	996	1020
70°	911	886	891
75°	810	766	761
80°	704	629	612
85°	577	445	346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	3.5
10°-20°	281.5	10.0
20°-30°	429.6	15.3
30°-40°	517.9	18.4
40°-50°	528.2	18.8
50°-60°	452.0	16.1
60°-70°	311.4	11.1
70°-80°	159.6	5.7
80°-90°	37.2	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°	808.7	28.7
0°-40°	1326.7	47.1
0°-60°	2306.9	81.9
0°-90°	2815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2815.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	1027	1025	1024	1027	1030	98
15°	991	990	995	1003	1006	279
25°	915	918	930	946	953	422
35°	807	810	828	846	853	505
45°	668	670	686	703	707	515
55°	499	496	505	516	520	445
65°	315	308	313	315	320	313
75°	156	150	147	147	146	168
85°	37	33	29	26	22	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1029.5	1029.5	1029.5	1029.5	1029.5
2.5°	1030.5	1028.4	1026.3	1028.4	1030.5
5°	1027.3	1025.2	1024.1	1027.3	1029.5
7.5°	1022.0	1019.8	1019.8	1024.1	1026.3
10°	1013.4	1012.4	1014.5	1018.8	1023.0
12.5°	1002.8	1002.8	1006.0	1011.3	1015.6
15°	991.0	989.9	995.3	1002.8	1006.0
17.5°	975.0	976.1	983.5	992.1	996.4
20°	959.0	960.0	967.5	979.3	984.6
22.5°	938.7	940.8	949.4	964.3	969.7
25°	915.2	918.4	930.1	946.2	952.6
27.5°	891.7	894.9	907.7	925.9	934.4
30°	866.1	870.3	883.2	902.4	909.9
32.5°	837.2	840.4	856.5	875.7	883.2
35°	807.3	810.5	827.6	845.8	853.3
37.5°	777.4	777.4	794.5	815.9	823.4
40°	741.1	742.2	760.3	780.6	784.9
42.5°	707.0	707.0	723.0	742.2	749.7
45°	668.5	669.6	685.6	702.7	707.0
47.5°	629.0	629.0	642.9	658.9	663.2
50°	587.3	585.2	601.2	614.0	617.2
52.5°	544.6	541.4	554.2	564.9	569.2
55°	498.7	495.5	505.1	515.8	520.1
57.5°	450.7	446.4	457.1	466.7	468.8
60°	405.8	399.4	407.9	413.3	418.6
62.5°	361.0	353.5	359.9	363.1	367.4
65°	315.0	307.6	312.9	315.0	320.4
67.5°	271.2	265.9	267.0	270.2	272.3
70°	231.7	225.3	225.3	225.3	226.4
72.5°	195.4	185.8	184.7	185.8	185.8
75°	155.9	149.5	147.4	147.4	146.3
77.5°	124.9	116.4	115.3	113.2	111.1
80°	90.8	83.3	81.2	80.1	79.0
82.5°	63.0	56.6	54.5	52.3	49.1
85°	37.4	33.1	28.8	25.6	22.4
87.5°	13.9	12.8	10.7	9.6	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)