

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: P296294

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296294
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-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2606.0 lumens
Efficiency: N/A
Efficacy: 103.0 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

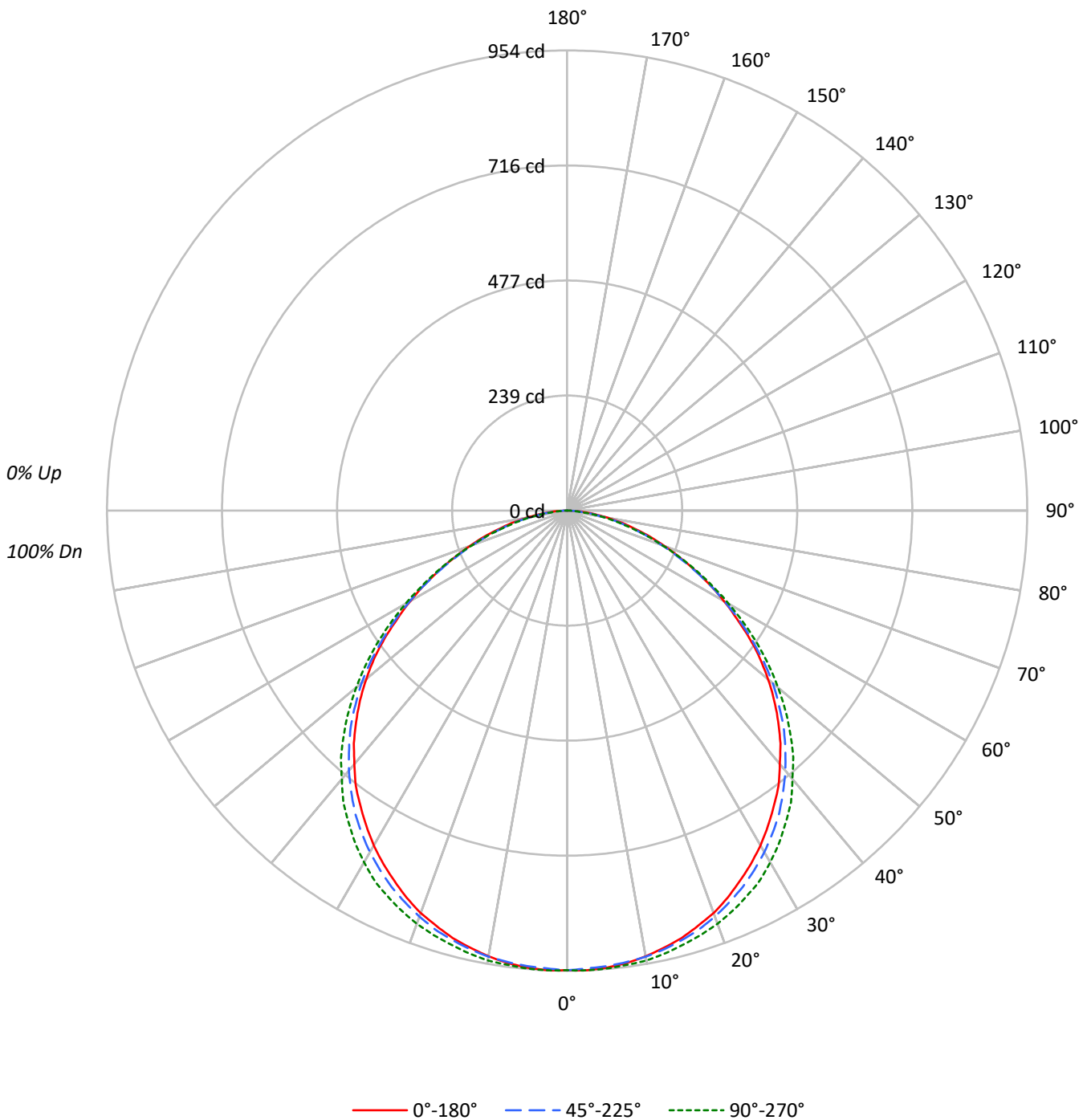
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1282	1282	1282
5°	1284	1281	1287
10°	1282	1283	1294
15°	1278	1283	1297
20°	1271	1282	1305
25°	1258	1278	1309
30°	1246	1270	1309
35°	1228	1259	1297
40°	1205	1236	1276
45°	1178	1208	1245
50°	1138	1165	1196
55°	1083	1097	1129
60°	1011	1016	1043
65°	928	922	944
70°	844	821	825
75°	750	709	704
80°	651	582	567
85°	534	412	321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	3.5
10°-20°	260.6	10.0
20°-30°	397.7	15.3
30°-40°	479.5	18.4
40°-50°	489.0	18.8
50°-60°	418.5	16.1
60°-70°	288.3	11.1
70°-80°	147.8	5.7
80°-90°	34.4	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°	748.7	28.7
0°-40°	1228.2	47.1
0°-60°	2135.6	81.9
0°-90°	2606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	951	949	948	951	953	90
15°	917	916	921	928	931	259
25°	847	850	861	876	882	391
35°	747	750	766	783	790	468
45°	619	620	635	650	654	477
55°	462	459	468	478	482	412
65°	292	285	290	292	297	290
75°	144	138	136	136	135	156
85°	35	31	27	24	21	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	953.0	953.0	953.0	953.0	953.0
2.5°	954.0	952.0	950.1	952.0	954.0
5°	951.0	949.1	948.1	951.0	953.0
7.5°	946.1	944.1	944.1	948.1	950.1
10°	938.2	937.2	939.2	943.1	947.1
12.5°	928.3	928.3	931.3	936.2	940.2
15°	917.4	916.4	921.4	928.3	931.3
17.5°	902.6	903.6	910.5	918.4	922.4
20°	887.8	888.8	895.7	906.6	911.5
22.5°	869.0	871.0	878.9	892.7	897.7
25°	847.2	850.2	861.1	875.9	881.8
27.5°	825.5	828.5	840.3	857.1	865.0
30°	801.8	805.7	817.6	835.4	842.3
32.5°	775.1	778.0	792.9	810.7	817.6
35°	747.4	750.4	766.2	783.0	789.9
37.5°	719.7	719.7	735.5	755.3	762.2
40°	686.1	687.1	703.9	722.7	726.6
42.5°	654.5	654.5	669.3	687.1	694.0
45°	618.9	619.9	634.7	650.5	654.5
47.5°	582.3	582.3	595.1	610.0	613.9
50°	543.7	541.8	556.6	568.5	571.4
52.5°	504.2	501.2	513.1	523.0	526.9
55°	461.7	458.7	467.6	477.5	481.5
57.5°	417.2	413.2	423.1	432.0	434.0
60°	375.7	369.7	377.7	382.6	387.5
62.5°	334.2	327.2	333.2	336.1	340.1
65°	291.6	284.7	289.7	291.6	296.6
67.5°	251.1	246.2	247.2	250.1	252.1
70°	214.5	208.6	208.6	208.6	209.6
72.5°	180.9	172.0	171.0	172.0	172.0
75°	144.3	138.4	136.4	136.4	135.4
77.5°	115.7	107.8	106.8	104.8	102.8
80°	84.0	77.1	75.1	74.1	73.2
82.5°	58.3	52.4	50.4	48.4	45.5
85°	34.6	30.6	26.7	23.7	20.8
87.5°	12.9	11.9	9.9	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)