

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: P296293

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296293
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-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: 2482.0 lumens
Efficiency: N/A
Efficacy: 99.6 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

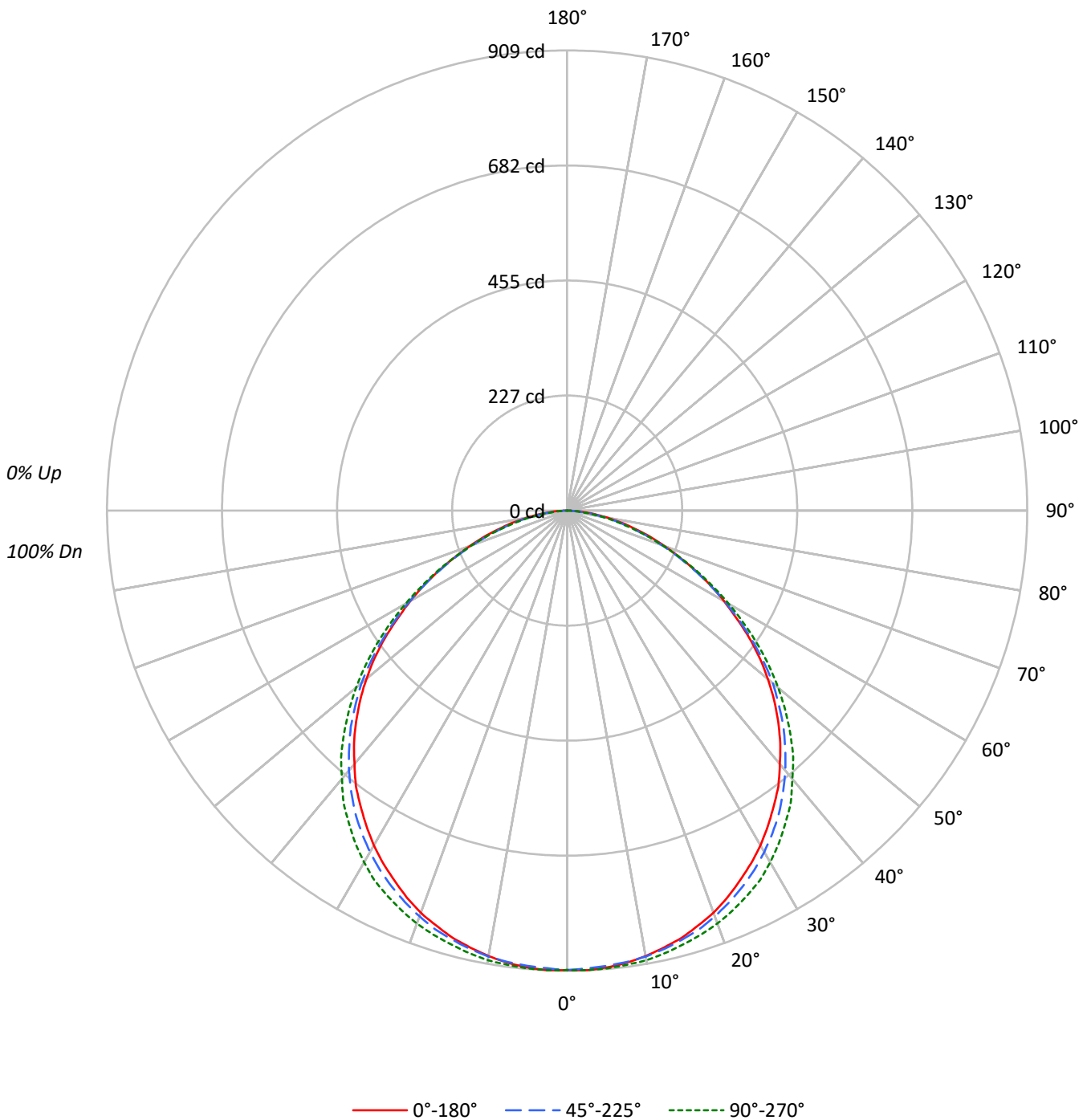
Input Watts (W): 24.924
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1221	1221	1221
5°	1223	1220	1226
10°	1221	1222	1232
15°	1217	1222	1236
20°	1211	1222	1243
25°	1198	1218	1247
30°	1186	1210	1246
35°	1169	1199	1236
40°	1148	1177	1216
45°	1122	1150	1186
50°	1084	1110	1139
55°	1031	1045	1076
60°	963	968	993
65°	884	878	899
70°	804	782	785
75°	715	675	671
80°	620	555	540
85°	509	392	306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	3.5
10°-20°	248.2	10.0
20°-30°	378.8	15.3
30°-40°	456.7	18.4
40°-50°	465.7	18.8
50°-60°	398.6	16.1
60°-70°	274.6	11.1
70°-80°	140.7	5.7
80°-90°	32.8	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°	713.0	28.7
0°-40°	1169.7	47.1
0°-60°	2034.0	81.9
0°-90°	2482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	906	904	903	906	908	86
15°	874	873	878	884	887	246
25°	807	810	820	834	840	372
35°	712	715	730	746	752	445
45°	589	590	604	620	623	454
55°	440	437	445	455	458	392
65°	278	271	276	278	282	276
75°	138	132	130	130	129	148
85°	33	29	25	23	20	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.7	907.7	907.7	907.7	907.7
2.5°	908.6	906.7	904.9	906.7	908.6
5°	905.8	903.9	903.0	905.8	907.7
7.5°	901.1	899.2	899.2	903.0	904.9
10°	893.6	892.6	894.5	898.3	902.0
12.5°	884.1	884.1	887.0	891.7	895.4
15°	873.8	872.8	877.5	884.1	887.0
17.5°	859.7	860.6	867.2	874.7	878.5
20°	845.5	846.5	853.1	863.4	868.1
22.5°	827.6	829.5	837.1	850.2	854.9
25°	806.9	809.8	820.1	834.2	839.9
27.5°	786.2	789.0	800.3	816.3	823.9
30°	763.6	767.4	778.7	795.6	802.2
32.5°	738.2	741.0	755.1	772.1	778.7
35°	711.8	714.7	729.7	745.7	752.3
37.5°	685.5	685.5	700.5	719.4	726.0
40°	653.5	654.4	670.4	688.3	692.1
42.5°	623.3	623.3	637.4	654.4	661.0
45°	589.4	590.4	604.5	619.6	623.3
47.5°	554.6	554.6	566.8	581.0	584.7
50°	517.9	516.0	530.1	541.4	544.2
52.5°	480.2	477.4	488.7	498.1	501.9
55°	439.7	436.9	445.4	454.8	458.5
57.5°	397.3	393.6	403.0	411.5	413.4
60°	357.8	352.1	359.7	364.4	369.1
62.5°	318.3	311.7	317.3	320.1	323.9
65°	277.8	271.2	275.9	277.8	282.5
67.5°	239.2	234.5	235.4	238.2	240.1
70°	204.3	198.7	198.7	198.7	199.6
72.5°	172.3	163.8	162.9	163.8	163.8
75°	137.5	131.8	129.9	129.9	129.0
77.5°	110.2	102.6	101.7	99.8	97.9
80°	80.0	73.4	71.6	70.6	69.7
82.5°	55.6	49.9	48.0	46.1	43.3
85°	33.0	29.2	25.4	22.6	19.8
87.5°	12.2	11.3	9.4	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)