

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: P296239

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296239
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-L93050-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: 2589.0 lumens
Efficiency: N/A
Efficacy: 100.9 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

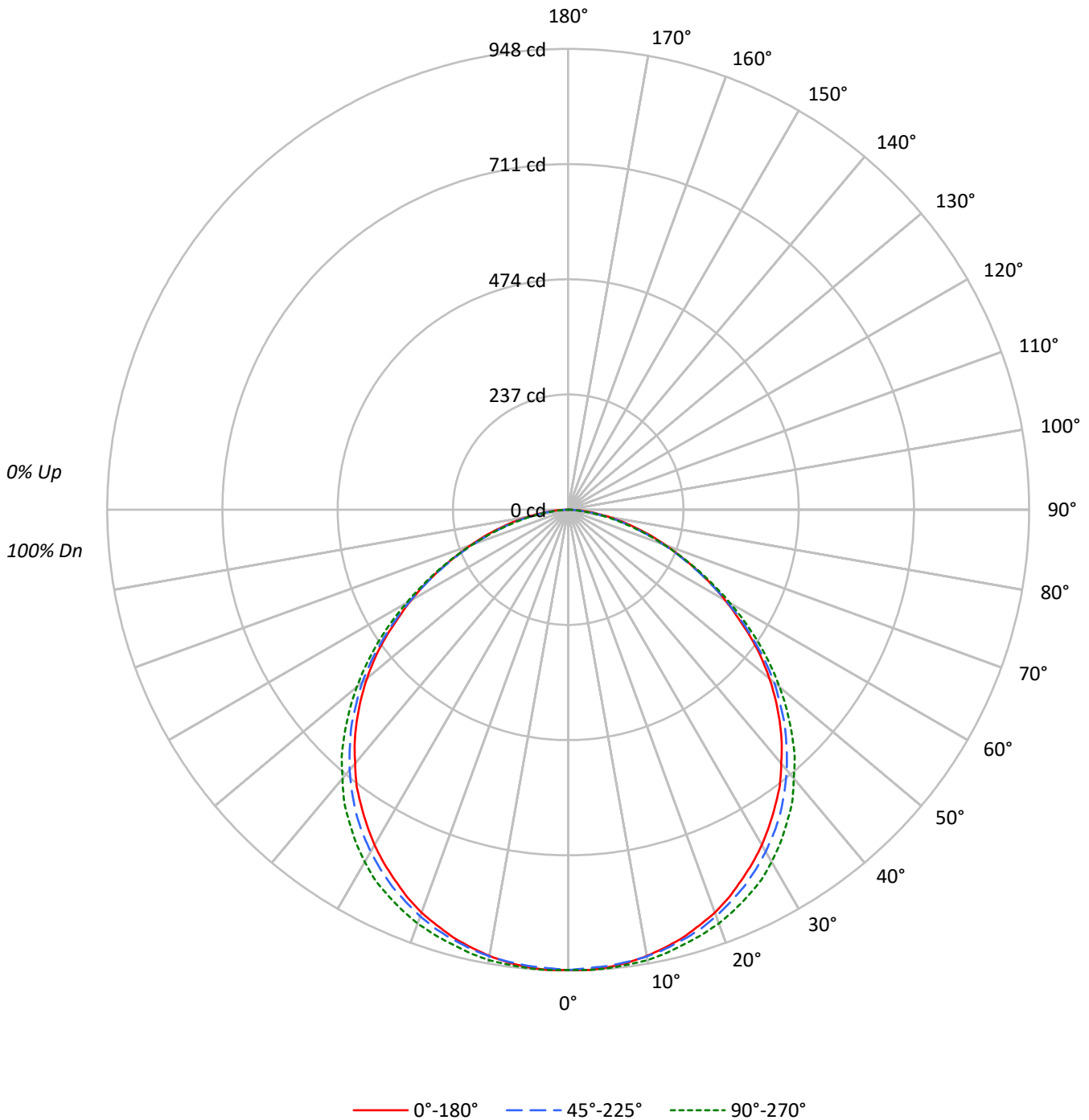
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1274	1274	1274
5°	1276	1272	1279
10°	1273	1275	1286
15°	1270	1275	1289
20°	1263	1274	1297
25°	1250	1270	1301
30°	1237	1262	1300
35°	1220	1250	1289
40°	1197	1228	1268
45°	1170	1200	1237
50°	1131	1158	1188
55°	1076	1090	1122
60°	1004	1010	1036
65°	922	916	938
70°	838	815	819
75°	745	704	700
80°	647	578	563
85°	531	409	318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	3.5
10°-20°	258.9	10.0
20°-30°	395.1	15.3
30°-40°	476.4	18.4
40°-50°	485.8	18.8
50°-60°	415.7	16.1
60°-70°	286.4	11.1
70°-80°	146.8	5.7
80°-90°	34.2	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°	743.8	28.7
0°-40°	1220.1	47.1
0°-60°	2121.7	81.9
0°-90°	2589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	945	943	942	945	947	90
15°	911	910	915	922	925	257
25°	842	845	856	870	876	388
35°	742	746	761	778	785	465
45°	615	616	630	646	650	474
55°	459	456	465	474	478	409
65°	290	283	288	290	295	288
75°	143	138	136	136	135	155
85°	34	30	26	24	21	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	946.8	946.8	946.8	946.8	946.8
2.5°	947.8	945.8	943.9	945.8	947.8
5°	944.8	942.9	941.9	944.8	946.8
7.5°	939.9	938.0	938.0	941.9	943.9
10°	932.1	931.1	933.1	937.0	940.9
12.5°	922.3	922.3	925.2	930.1	934.0
15°	911.4	910.5	915.4	922.3	925.2
17.5°	896.7	897.7	904.6	912.4	916.4
20°	882.0	883.0	889.8	900.6	905.6
22.5°	863.3	865.3	873.1	886.9	891.8
25°	841.7	844.7	855.5	870.2	876.1
27.5°	820.1	823.1	834.8	851.5	859.4
30°	796.5	800.5	812.3	829.9	836.8
32.5°	770.0	773.0	787.7	805.4	812.3
35°	742.5	745.5	761.2	777.9	784.7
37.5°	715.0	715.0	730.7	750.4	757.2
40°	681.6	682.6	699.3	718.0	721.9
42.5°	650.2	650.2	664.9	682.6	689.5
45°	614.8	615.8	630.5	646.3	650.2
47.5°	578.5	578.5	591.3	606.0	609.9
50°	540.2	538.2	553.0	564.7	567.7
52.5°	500.9	498.0	509.7	519.6	523.5
55°	458.7	455.7	464.6	474.4	478.3
57.5°	414.5	410.5	420.4	429.2	431.2
60°	373.2	367.3	375.2	380.1	385.0
62.5°	332.0	325.1	331.0	333.9	337.9
65°	289.7	282.9	287.8	289.7	294.6
67.5°	249.5	244.6	245.5	248.5	250.5
70°	213.1	207.2	207.2	207.2	208.2
72.5°	179.7	170.9	169.9	170.9	170.9
75°	143.4	137.5	135.5	135.5	134.6
77.5°	114.9	107.1	106.1	104.1	102.1
80°	83.5	76.6	74.6	73.7	72.7
82.5°	57.9	52.1	50.1	48.1	45.2
85°	34.4	30.4	26.5	23.6	20.6
87.5°	12.8	11.8	9.8	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)