

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: P295712

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-26-RDP-UNV-L82765-W2A1-U-5000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2334.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

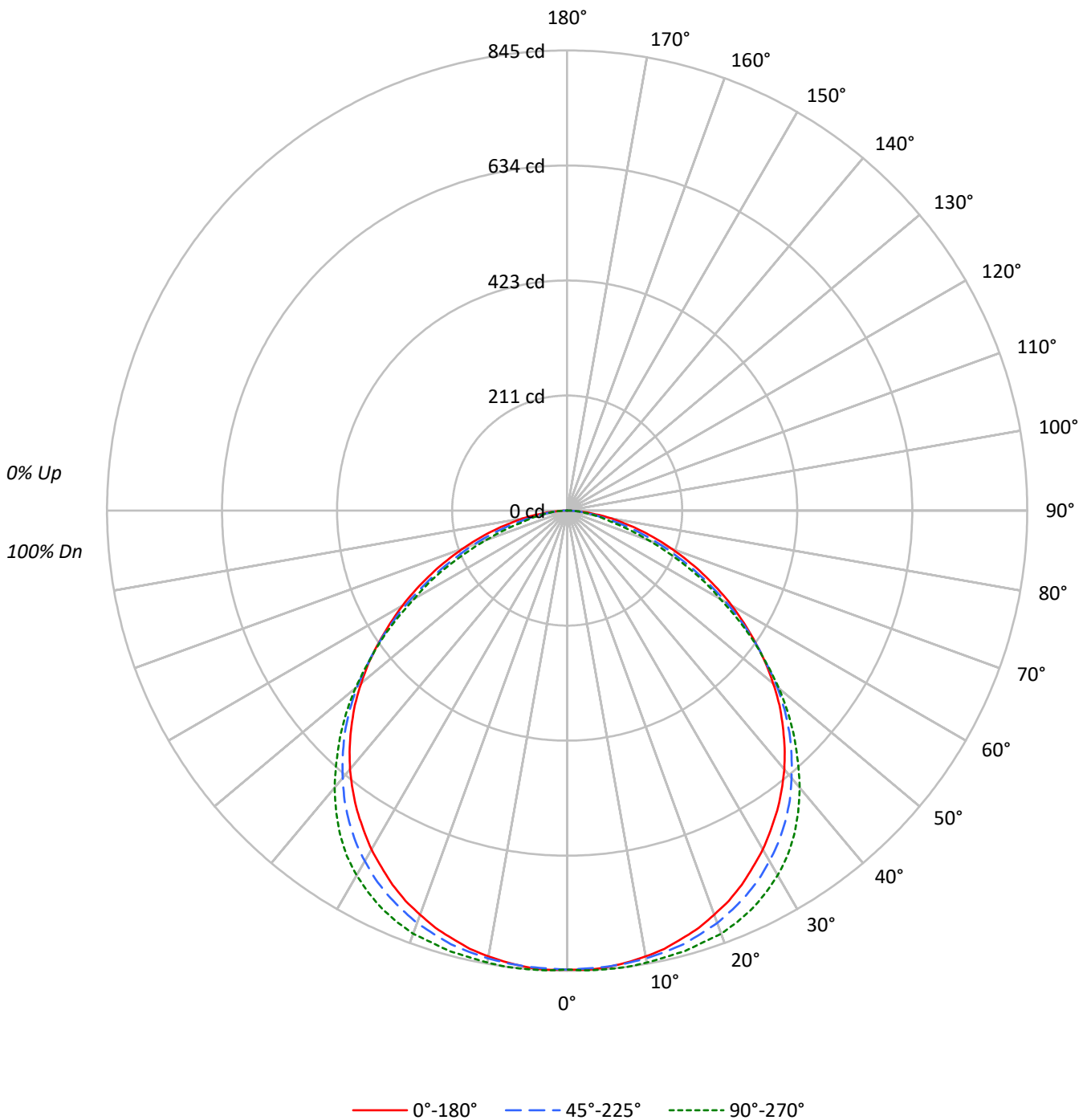
Input Watts (W): 24.366
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	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	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2268	2268	2268
5°	2274	2271	2283
10°	2272	2281	2303
15°	2267	2296	2332
20°	2261	2308	2367
25°	2252	2313	2393
30°	2234	2309	2403
35°	2209	2293	2388
40°	2179	2252	2334
45°	2131	2197	2246
50°	2068	2107	2126
55°	1980	1975	1963
60°	1878	1816	1747
65°	1750	1624	1536
70°	1596	1423	1241
75°	1435	1181	928
80°	1275	863	809
85°	1003	716	716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	3.4
10°-20°	233.2	10.0
20°-30°	359.9	15.4
30°-40°	436.5	18.7
40°-50°	443.2	19.0
50°-60°	374.9	16.1
60°-70°	253.6	10.9
70°-80°	122.6	5.3
80°-90°	29.9	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°	673.3	28.8
0°-40°	1109.8	47.5
0°-60°	1927.8	82.6
0°-90°	2334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2334.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	842	842	841	844	845	80
15°	814	818	824	834	837	230
25°	758	764	779	799	806	349
35°	672	679	698	720	727	420
45°	560	561	577	589	590	432
55°	422	418	421	421	418	377
65°	275	263	255	245	241	272
75°	138	128	114	99	89	147
85°	32	26	23	23	23	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.9	842.9	842.9	842.9	842.9
2.5°	844.1	844.1	841.7	844.1	845.2
5°	841.7	841.7	840.6	844.1	845.2
7.5°	837.1	838.3	838.3	842.9	845.2
10°	831.3	833.6	834.8	841.7	842.9
12.5°	824.3	826.7	830.1	838.3	839.4
15°	813.9	818.5	824.3	833.6	837.1
17.5°	803.5	808.1	815.1	827.8	831.3
20°	789.6	795.4	805.8	820.9	826.7
22.5°	775.6	780.3	793.0	811.6	817.4
25°	758.3	764.1	779.1	798.8	805.8
27.5°	738.5	746.7	762.9	783.8	790.7
30°	718.8	725.8	743.2	766.4	773.3
32.5°	695.6	702.6	722.3	744.3	752.5
35°	672.5	679.4	698.0	720.0	727.0
37.5°	647.0	651.6	671.3	689.9	696.8
40°	620.3	623.8	641.2	659.7	664.3
42.5°	591.3	593.6	609.9	626.1	627.2
45°	560.0	561.2	577.4	589.0	590.1
47.5°	528.7	527.5	541.4	549.6	550.7
50°	493.9	493.9	503.2	507.8	507.8
52.5°	459.1	456.8	461.4	464.9	461.4
55°	422.0	418.5	420.9	420.9	418.5
57.5°	384.9	378.0	379.1	376.8	371.0
60°	349.0	340.9	337.4	329.3	324.6
62.5°	311.9	302.6	295.7	286.4	285.2
65°	274.8	263.2	255.1	244.6	241.2
67.5°	238.8	228.4	216.8	205.2	198.3
70°	202.9	191.3	180.9	165.8	157.7
72.5°	170.4	160.0	147.2	129.9	124.1
75°	138.0	127.5	113.6	98.6	89.3
77.5°	106.7	98.6	83.5	70.7	69.6
80°	82.3	73.0	55.7	52.2	52.2
82.5°	53.3	47.5	39.4	37.1	37.1
85°	32.5	25.5	23.2	23.2	23.2
87.5°	12.8	11.6	11.6	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)