

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: P295680

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295680
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-L83050-W2A1-U-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2380.0 lumens
Efficiency: N/A
Efficacy: 97.7 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

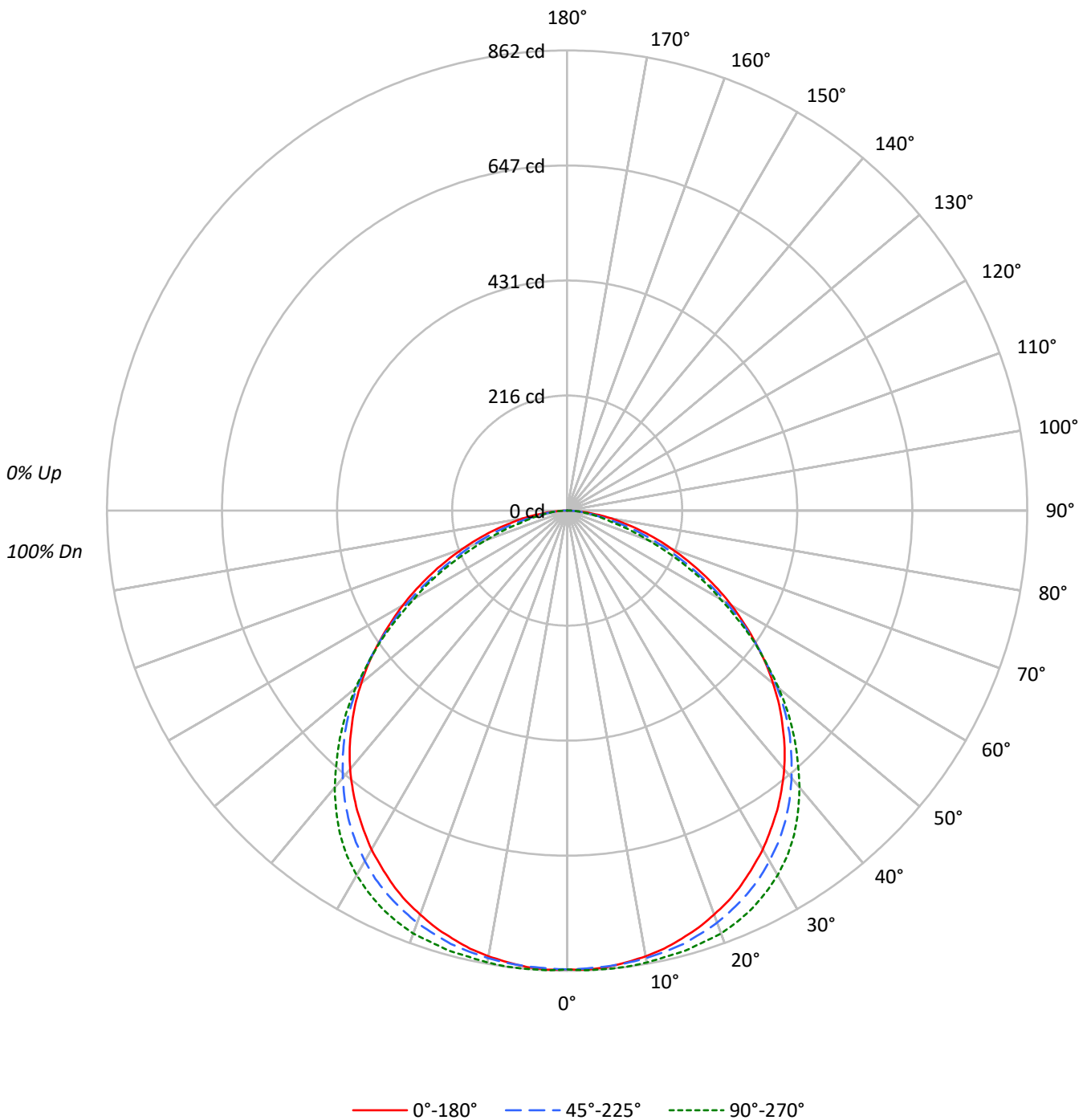
Input Watts (W): 24.366
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2313	2313	2313
5°	2318	2315	2328
10°	2316	2326	2349
15°	2312	2342	2378
20°	2306	2353	2414
25°	2296	2359	2440
30°	2278	2355	2450
35°	2253	2338	2435
40°	2222	2297	2380
45°	2173	2241	2290
50°	2108	2148	2168
55°	2019	2014	2002
60°	1915	1851	1781
65°	1784	1656	1566
70°	1628	1451	1265
75°	1463	1205	946
80°	1300	879	824
85°	1022	729	729



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	3.4
10°-20°	237.8	10.0
20°-30°	367.0	15.4
30°-40°	445.1	18.7
40°-50°	451.9	19.0
50°-60°	382.3	16.1
60°-70°	258.6	10.9
70°-80°	125.0	5.3
80°-90°	30.5	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°	686.6	28.8
0°-40°	1131.6	47.5
0°-60°	1965.8	82.6
0°-90°	2380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2380.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	860	860	860	860	860	
5°	858	858	857	861	862	82
15°	830	835	841	850	854	234
25°	773	779	794	815	822	356
35°	686	693	712	734	741	429
45°	571	572	589	601	602	440
55°	430	427	429	429	427	385
65°	280	268	260	250	246	278
75°	141	130	116	100	91	150
85°	33	26	24	24	24	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	859.5	859.5	859.5	859.5	859.5
2.5°	860.7	860.7	858.3	860.7	861.9
5°	858.3	858.3	857.1	860.7	861.9
7.5°	853.6	854.8	854.8	859.5	861.9
10°	847.7	850.0	851.2	858.3	859.5
12.5°	840.6	843.0	846.5	854.8	856.0
15°	829.9	834.7	840.6	850.0	853.6
17.5°	819.3	824.0	831.1	844.1	847.7
20°	805.1	811.0	821.7	837.0	843.0
22.5°	790.9	795.7	808.7	827.6	833.5
25°	773.2	779.1	794.5	814.6	821.7
27.5°	753.1	761.4	777.9	799.2	806.3
30°	733.0	740.1	757.8	781.5	788.6
32.5°	709.4	716.5	736.5	759.0	767.3
35°	685.7	692.8	711.7	734.2	741.3
37.5°	659.7	664.4	684.5	703.4	710.5
40°	632.5	636.1	653.8	672.7	677.4
42.5°	603.0	605.3	621.9	638.4	639.6
45°	571.0	572.2	588.8	600.6	601.8
47.5°	539.1	537.9	552.1	560.4	561.6
50°	503.6	503.6	513.1	517.8	517.8
52.5°	468.2	465.8	470.5	474.1	470.5
55°	430.3	426.8	429.2	429.2	426.8
57.5°	392.5	385.4	386.6	384.2	378.3
60°	355.9	347.6	344.0	335.8	331.0
62.5°	318.0	308.6	301.5	292.0	290.8
65°	280.2	268.4	260.1	249.5	245.9
67.5°	243.5	232.9	221.1	209.3	202.2
70°	206.9	195.1	184.4	169.1	160.8
72.5°	173.8	163.2	150.1	132.4	126.5
75°	140.7	130.0	115.9	100.5	91.0
77.5°	108.8	100.5	85.1	72.1	70.9
80°	83.9	74.5	56.7	53.2	53.2
82.5°	54.4	48.5	40.2	37.8	37.8
85°	33.1	26.0	23.6	23.6	23.6
87.5°	13.0	11.8	11.8	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)