

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: P295717

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295717
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-LD5-31-RDP-UNV-L82765-W2A1-U-3000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2499.0 lumens
Efficiency: N/A
Efficacy: 89.0 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

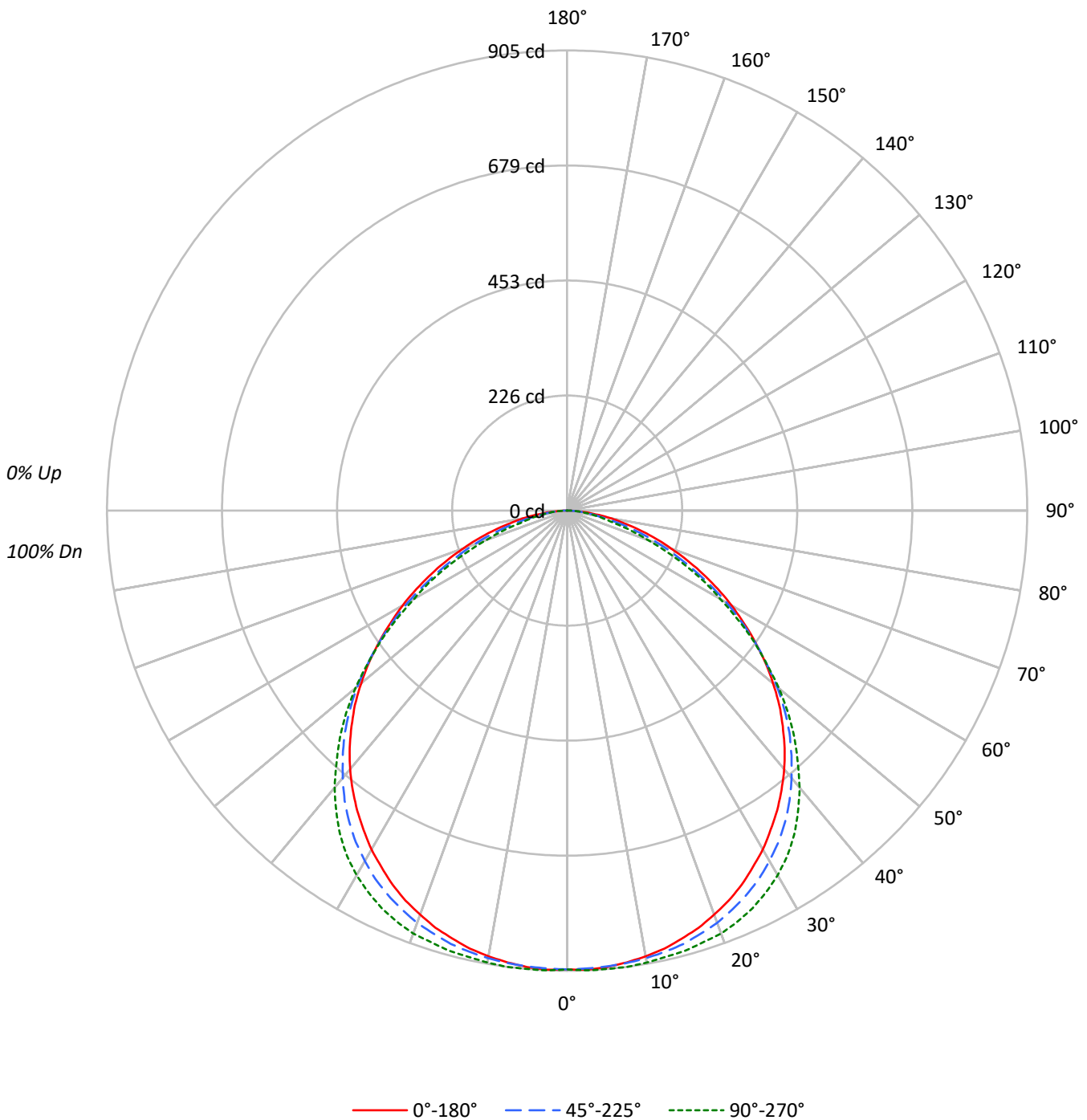
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2429	2429	2429
5°	2434	2431	2445
10°	2432	2442	2466
15°	2428	2459	2497
20°	2421	2471	2535
25°	2411	2477	2562
30°	2392	2472	2573
35°	2365	2455	2557
40°	2333	2412	2499
45°	2282	2353	2405
50°	2214	2256	2276
55°	2120	2114	2102
60°	2011	1944	1871
65°	1873	1739	1644
70°	1709	1524	1328
75°	1536	1265	994
80°	1365	924	866
85°	1074	766	766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	3.4
10°-20°	249.7	10.0
20°-30°	385.3	15.4
30°-40°	467.3	18.7
40°-50°	474.5	19.0
50°-60°	401.4	16.1
60°-70°	271.6	10.9
70°-80°	131.3	5.3
80°-90°	32.0	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°	720.9	28.8
0°-40°	1188.2	47.5
0°-60°	2064.1	82.6
0°-90°	2499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2499.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	901	901	900	904	905	86
15°	871	876	883	892	896	246
25°	812	818	834	855	863	374
35°	720	727	747	771	778	450
45°	600	601	618	631	632	462
55°	452	448	451	451	448	404
65°	294	282	273	262	258	292
75°	148	137	122	106	96	157
85°	35	27	25	25	25	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	902.5	902.5	902.5	902.5	902.5
2.5°	903.7	903.7	901.2	903.7	905.0
5°	901.2	901.2	900.0	903.7	905.0
7.5°	896.3	897.5	897.5	902.5	905.0
10°	890.1	892.5	893.8	901.2	902.5
12.5°	882.6	885.1	888.8	897.5	898.8
15°	871.4	876.4	882.6	892.5	896.3
17.5°	860.3	865.2	872.7	886.3	890.1
20°	845.4	851.6	862.8	878.9	885.1
22.5°	830.5	835.4	849.1	869.0	875.2
25°	811.9	818.1	834.2	855.3	862.8
27.5°	790.8	799.4	816.8	839.2	846.6
30°	769.7	777.1	795.7	820.5	828.0
32.5°	744.8	752.3	773.4	797.0	805.7
35°	720.0	727.4	747.3	770.9	778.3
37.5°	692.7	697.7	718.8	738.6	746.1
40°	664.1	667.9	686.5	706.3	711.3
42.5°	633.1	635.6	653.0	670.3	671.6
45°	599.6	600.8	618.2	630.6	631.9
47.5°	566.1	564.8	579.7	588.4	589.7
50°	528.8	528.8	538.8	543.7	543.7
52.5°	491.6	489.1	494.1	497.8	494.1
55°	451.9	448.1	450.6	450.6	448.1
57.5°	412.1	404.7	405.9	403.4	397.2
60°	373.7	365.0	361.2	352.6	347.6
62.5°	333.9	324.0	316.6	306.6	305.4
65°	294.2	281.8	273.1	261.9	258.2
67.5°	255.7	244.6	232.1	219.7	212.3
70°	217.2	204.8	193.7	177.5	168.8
72.5°	182.5	171.3	157.7	139.0	132.8
75°	147.7	136.6	121.7	105.5	95.6
77.5°	114.2	105.5	89.4	75.7	74.5
80°	88.1	78.2	59.6	55.9	55.9
82.5°	57.1	50.9	42.2	39.7	39.7
85°	34.8	27.3	24.8	24.8	24.8
87.5°	13.7	12.4	12.4	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)