

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: P295792

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295792  
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-L92765-W2A1-U-5500K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2484.0 lumens  
Efficiency: N/A  
Efficacy: 85.3 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

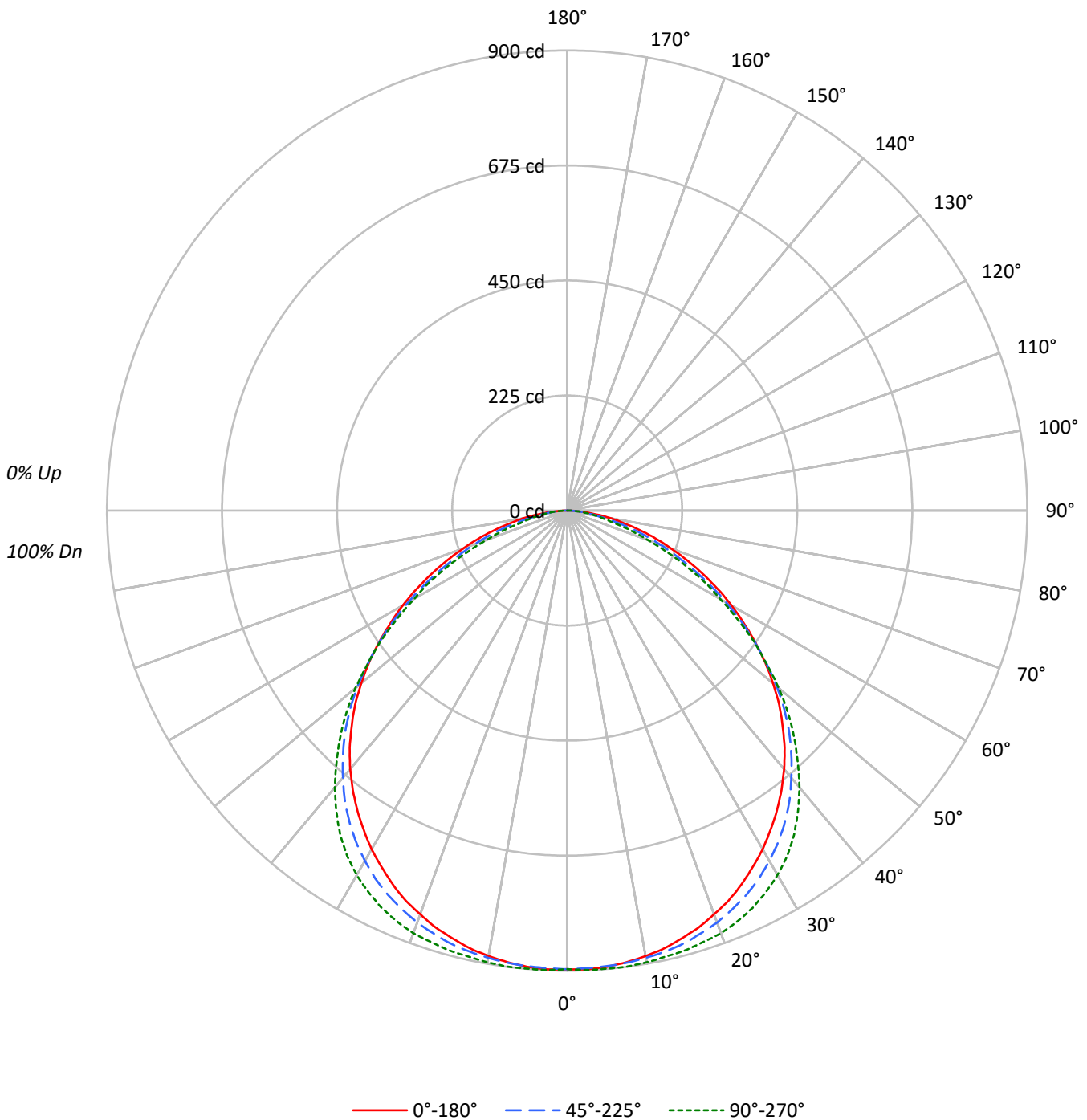
Input Watts (W): 29.109  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2414	2414	2414
5°	2420	2417	2430
10°	2417	2428	2451
15°	2413	2444	2482
20°	2406	2456	2519
25°	2396	2462	2546
30°	2377	2458	2557
35°	2351	2440	2542
40°	2319	2397	2484
45°	2268	2339	2390
50°	2201	2242	2263
55°	2107	2101	2090
60°	1999	1933	1859
65°	1862	1729	1635
70°	1699	1515	1320
75°	1526	1257	988
80°	1358	917	860
85°	1065	763	763



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.4	3.4
10°-20°	248.2	10.0
20°-30°	383.0	15.4
30°-40°	464.5	18.7
40°-50°	471.6	19.0
50°-60°	399.0	16.1
60°-70°	269.9	10.9
70°-80°	130.5	5.3
80°-90°	31.8	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°	716.6	28.8
0°-40°	1181.1	47.5
0°-60°	2051.7	82.6
0°-90°	2484.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2484.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	896	896	895	898	900	85
15°	866	871	877	887	891	245
25°	807	813	829	850	858	372
35°	716	723	743	766	774	447
45°	596	597	614	627	628	460
55°	449	445	448	448	445	401
65°	292	280	272	260	257	290
75°	147	136	121	105	95	156
85°	34	27	25	25	25	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	897.1	897.1	897.1	897.1	897.1
2.5°	898.3	898.3	895.8	898.3	899.5
5°	895.8	895.8	894.6	898.3	899.5
7.5°	890.9	892.1	892.1	897.1	899.5
10°	884.7	887.2	888.4	895.8	897.1
12.5°	877.3	879.8	883.5	892.1	893.4
15°	866.2	871.2	877.3	887.2	890.9
17.5°	855.1	860.0	867.4	881.0	884.7
20°	840.3	846.5	857.6	873.6	879.8
22.5°	825.5	830.4	844.0	863.7	869.9
25°	807.0	813.2	829.2	850.2	857.6
27.5°	786.0	794.6	811.9	834.1	841.5
30°	765.0	772.4	790.9	815.6	823.0
32.5°	740.4	747.8	768.7	792.2	800.8
35°	715.7	723.1	742.8	766.3	773.7
37.5°	688.5	693.5	714.4	734.2	741.6
40°	660.1	663.9	682.4	702.1	707.0
42.5°	629.3	631.8	649.0	666.3	667.6
45°	596.0	597.2	614.5	626.8	628.1
47.5°	562.7	561.4	576.2	584.9	586.1
50°	525.7	525.7	535.5	540.5	540.5
52.5°	488.6	486.2	491.1	494.8	491.1
55°	449.1	445.4	447.9	447.9	445.4
57.5°	409.7	402.3	403.5	401.0	394.9
60°	371.4	362.8	359.1	350.4	345.5
62.5°	331.9	322.1	314.7	304.8	303.5
65°	292.4	280.1	271.5	260.4	256.7
67.5°	254.2	243.1	230.7	218.4	211.0
70°	215.9	203.6	192.5	176.5	167.8
72.5°	181.4	170.3	156.7	138.2	132.0
75°	146.8	135.7	120.9	104.9	95.0
77.5°	113.5	104.9	88.8	75.3	74.0
80°	87.6	77.7	59.2	55.5	55.5
82.5°	56.8	50.6	42.0	39.5	39.5
85°	34.5	27.1	24.7	24.7	24.7
87.5°	13.6	12.3	12.3	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)