

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: P295706

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295706  
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-LD5-23-RDP-UNV-L82765-W2A1-U-6500K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2099.0 lumens  
Efficiency: N/A  
Efficacy: 97.3 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

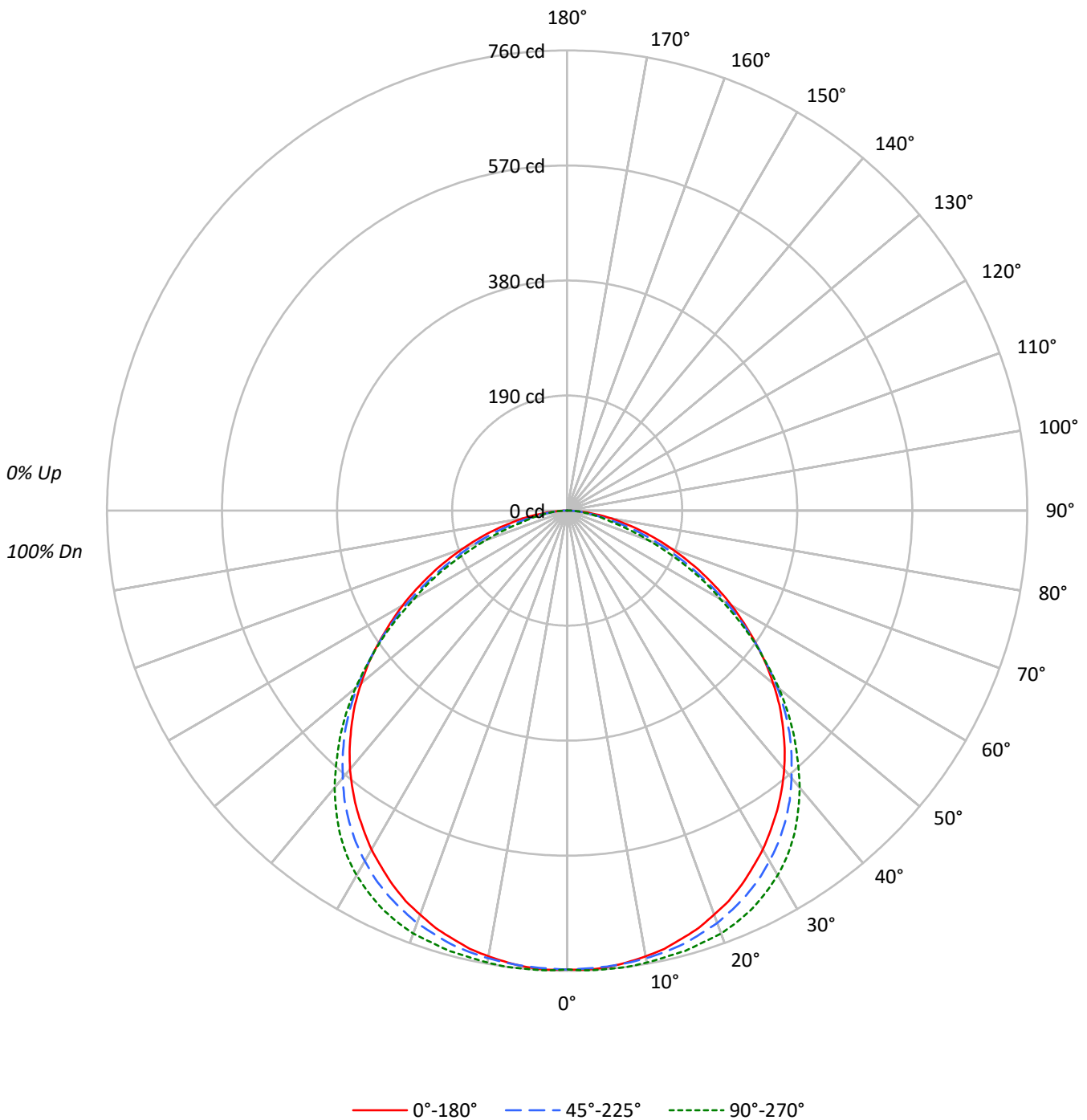
Input Watts (W): 21.576  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2040	2040	2040
5°	2045	2042	2053
10°	2043	2051	2071
15°	2039	2065	2097
20°	2033	2075	2129
25°	2025	2080	2152
30°	2009	2077	2161
35°	1987	2062	2148
40°	1959	2025	2099
45°	1917	1976	2020
50°	1860	1894	1912
55°	1780	1776	1766
60°	1689	1633	1571
65°	1573	1461	1381
70°	1436	1280	1116
75°	1290	1063	835
80°	1147	775	727
85°	902	645	645



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.2	3.4
10°-20°	209.7	10.0
20°-30°	323.7	15.4
30°-40°	392.5	18.7
40°-50°	398.5	19.0
50°-60°	337.1	16.1
60°-70°	228.1	10.9
70°-80°	110.3	5.3
80°-90°	26.9	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°	605.5	28.8
0°-40°	998.0	47.5
0°-60°	1733.7	82.6
0°-90°	2099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2099.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	757	757	756	759	760	72
15°	732	736	741	750	753	207
25°	682	687	701	718	725	314
35°	605	611	628	648	654	378
45°	504	505	519	530	531	388
55°	380	376	378	378	376	339
65°	247	237	229	220	217	245
75°	124	115	102	89	80	132
85°	29	23	21	21	21	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	758.0	758.0	758.0	758.0	758.0
2.5°	759.1	759.1	757.0	759.1	760.1
5°	757.0	757.0	755.9	759.1	760.1
7.5°	752.8	753.9	753.9	758.0	760.1
10°	747.6	749.7	750.7	757.0	758.0
12.5°	741.3	743.4	746.6	753.9	754.9
15°	732.0	736.1	741.3	749.7	752.8
17.5°	722.6	726.7	733.0	744.5	747.6
20°	710.1	715.3	724.7	738.2	743.4
22.5°	697.6	701.7	713.2	729.9	735.1
25°	681.9	687.1	700.7	718.4	724.7
27.5°	664.2	671.5	686.1	704.8	711.1
30°	646.5	652.7	668.4	689.2	695.5
32.5°	625.6	631.9	649.6	669.4	676.7
35°	604.8	611.0	627.7	647.5	653.8
37.5°	581.8	586.0	603.7	620.4	626.6
40°	557.8	561.0	576.6	593.3	597.5
42.5°	531.8	533.9	548.4	563.0	564.1
45°	503.6	504.7	519.3	529.7	530.7
47.5°	475.5	474.4	486.9	494.2	495.3
50°	444.2	444.2	452.5	456.7	456.7
52.5°	412.9	410.8	415.0	418.1	415.0
55°	379.5	376.4	378.5	378.5	376.4
57.5°	346.2	339.9	341.0	338.9	333.7
60°	313.8	306.5	303.4	296.1	291.9
62.5°	280.5	272.1	265.9	257.5	256.5
65°	247.1	236.7	229.4	220.0	216.9
67.5°	214.8	205.4	195.0	184.6	178.3
70°	182.5	172.0	162.7	149.1	141.8
72.5°	153.3	143.9	132.4	116.8	111.6
75°	124.1	114.7	102.2	88.6	80.3
77.5°	95.9	88.6	75.1	63.6	62.6
80°	74.0	65.7	50.0	46.9	46.9
82.5°	48.0	42.7	35.5	33.4	33.4
85°	29.2	22.9	20.9	20.9	20.9
87.5°	11.5	10.4	10.4	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)