

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: P295704

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295704  
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-5500K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2088.0 lumens  
Efficiency: N/A  
Efficacy: 98.5 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

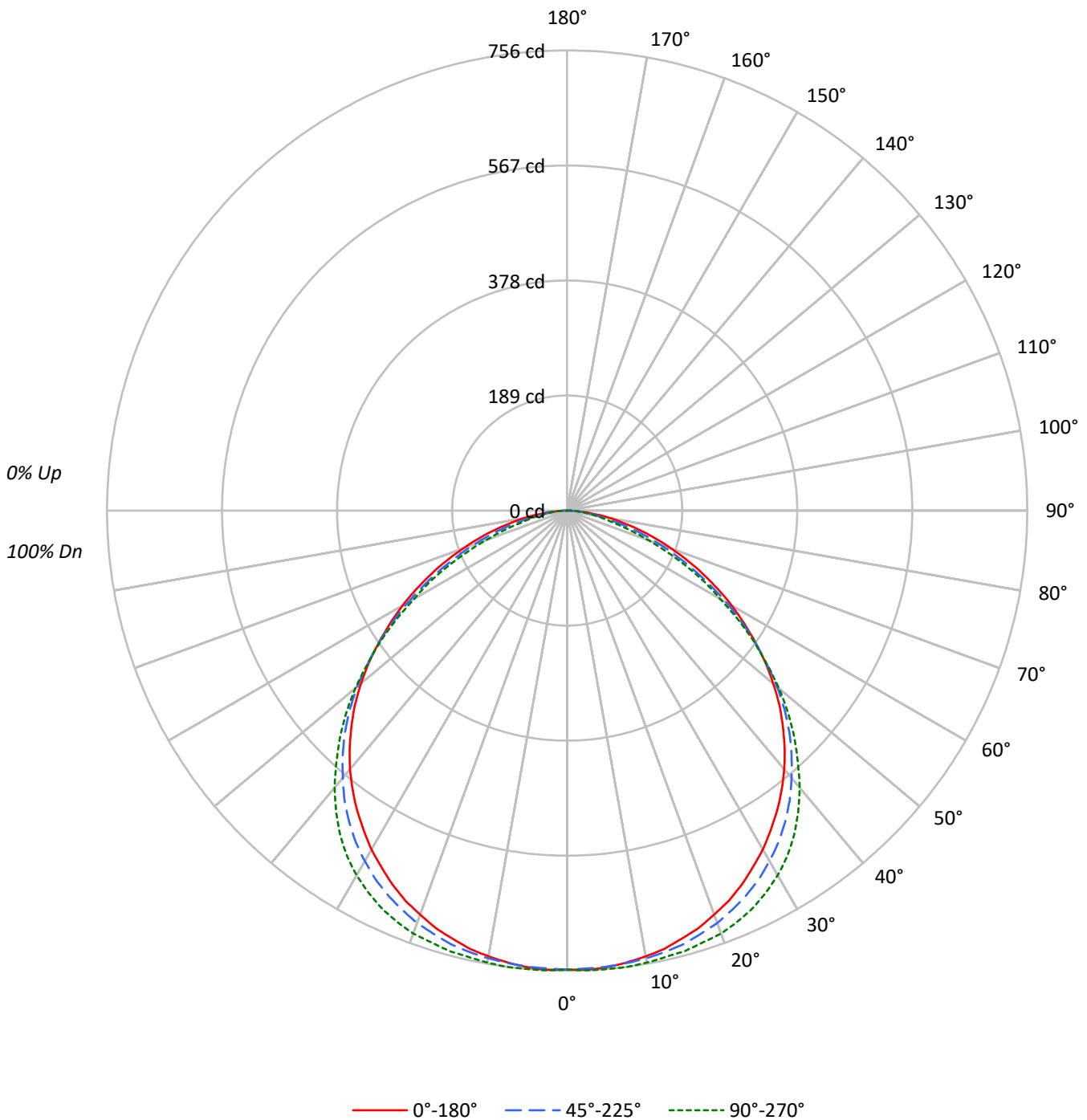
Input Watts (W): 21.204  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2029	2029	2029
5°	2034	2031	2042
10°	2032	2041	2061
15°	2028	2055	2086
20°	2023	2064	2118
25°	2014	2070	2140
30°	1998	2066	2150
35°	1976	2051	2136
40°	1949	2015	2088
45°	1907	1966	2009
50°	1850	1885	1902
55°	1771	1766	1757
60°	1680	1624	1563
65°	1565	1453	1373
70°	1428	1273	1110
75°	1283	1056	831
80°	1141	772	724
85°	895	639	639



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.8	3.4
10°-20°	208.6	10.0
20°-30°	322.0	15.4
30°-40°	390.5	18.7
40°-50°	396.4	19.0
50°-60°	335.4	16.1
60°-70°	226.9	10.9
70°-80°	109.7	5.3
80°-90°	26.8	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°	602.3	28.8
0°-40°	992.8	47.5
0°-60°	1724.6	82.6
0°-90°	2088.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2088.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	753	753	752	755	756	72
15°	728	732	738	746	749	206
25°	678	684	697	715	721	312
35°	602	608	624	644	650	376
45°	501	502	516	527	528	386
55°	378	374	376	376	374	337
65°	246	235	228	219	216	244
75°	123	114	102	88	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°	754.1	754.1	754.1	754.1	754.1
2.5°	755.1	755.1	753.0	755.1	756.1
5°	753.0	753.0	752.0	755.1	756.1
7.5°	748.9	749.9	749.9	754.1	756.1
10°	743.7	745.8	746.8	753.0	754.1
12.5°	737.5	739.5	742.6	749.9	750.9
15°	728.1	732.3	737.5	745.8	748.9
17.5°	718.8	722.9	729.2	740.6	743.7
20°	706.3	711.5	720.9	734.3	739.5
22.5°	693.9	698.0	709.5	726.0	731.2
25°	678.3	683.5	697.0	714.6	720.9
27.5°	660.7	668.0	682.5	701.2	707.4
30°	643.1	649.3	664.9	685.6	691.8
32.5°	622.3	628.6	646.2	665.9	673.2
35°	601.6	607.8	624.4	644.1	650.3
37.5°	578.8	582.9	600.5	617.1	623.4
40°	554.9	558.0	573.6	590.2	594.3
42.5°	529.0	531.1	545.6	560.1	561.1
45°	501.0	502.0	516.5	526.9	527.9
47.5°	473.0	471.9	484.4	491.6	492.7
50°	441.9	441.9	450.2	454.3	454.3
52.5°	410.7	408.7	412.8	415.9	412.8
55°	377.5	374.4	376.5	376.5	374.4
57.5°	344.4	338.1	339.2	337.1	331.9
60°	312.2	304.9	301.8	294.6	290.4
62.5°	279.0	270.7	264.5	256.2	255.2
65°	245.8	235.4	228.2	218.9	215.7
67.5°	213.7	204.3	194.0	183.6	177.4
70°	181.5	171.1	161.8	148.3	141.1
72.5°	152.5	143.1	131.7	116.2	111.0
75°	123.4	114.1	101.6	88.2	79.9
77.5°	95.4	88.2	74.7	63.3	62.2
80°	73.6	65.3	49.8	46.7	46.7
82.5°	47.7	42.5	35.3	33.2	33.2
85°	29.0	22.8	20.7	20.7	20.7
87.5°	11.4	10.4	10.4	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)