

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: P295751

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295751
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-L93050-W2A1-U-4500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2117.0 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

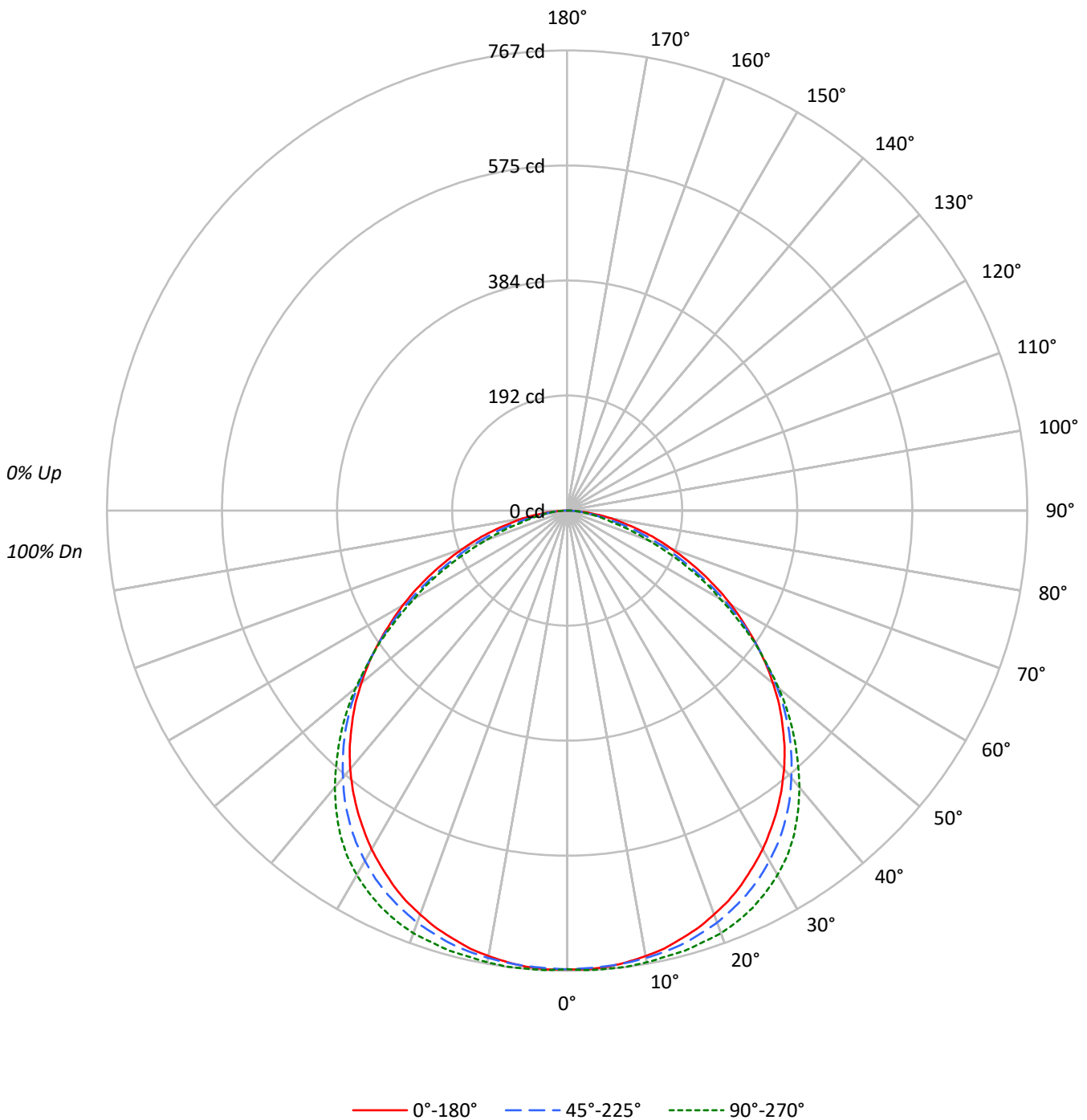
Input Watts (W): 24.831
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2057	2057	2057
5°	2062	2059	2071
10°	2060	2069	2089
15°	2057	2083	2115
20°	2051	2093	2147
25°	2042	2098	2170
30°	2026	2095	2179
35°	2004	2080	2166
40°	1976	2043	2117
45°	1933	1993	2037
50°	1876	1911	1928
55°	1796	1791	1781
60°	1703	1647	1585
65°	1587	1473	1393
70°	1448	1291	1125
75°	1301	1072	842
80°	1158	783	733
85°	908	648	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	3.4
10°-20°	211.5	10.0
20°-30°	326.4	15.4
30°-40°	395.9	18.7
40°-50°	401.9	19.0
50°-60°	340.0	16.1
60°-70°	230.1	10.9
70°-80°	111.2	5.3
80°-90°	27.1	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°	610.7	28.8
0°-40°	1006.6	47.5
0°-60°	1748.6	82.6
0°-90°	2117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2117.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	764	764	764	764	764	
5°	764	764	762	766	767	73
15°	738	742	748	756	759	208
25°	688	693	707	725	731	317
35°	610	616	633	653	659	381
45°	508	509	524	534	535	392
55°	383	380	382	382	380	342
65°	249	239	231	222	219	247
75°	125	116	103	89	81	133
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°	764.5	764.5	764.5	764.5	764.5
2.5°	765.6	765.6	763.5	765.6	766.6
5°	763.5	763.5	762.4	765.6	766.6
7.5°	759.3	760.3	760.3	764.5	766.6
10°	754.0	756.1	757.2	763.5	764.5
12.5°	747.7	749.8	753.0	760.3	761.4
15°	738.2	742.4	747.7	756.1	759.3
17.5°	728.8	733.0	739.3	750.9	754.0
20°	716.2	721.4	730.9	744.5	749.8
22.5°	703.5	707.7	719.3	736.1	741.4
25°	687.8	693.0	706.7	724.6	730.9
27.5°	669.9	677.2	692.0	710.9	717.2
30°	652.0	658.3	674.1	695.1	701.4
32.5°	631.0	637.3	655.2	675.1	682.5
35°	609.9	616.2	633.1	653.1	659.4
37.5°	586.8	591.0	608.9	625.7	632.0
40°	562.6	565.8	581.5	598.4	602.6
42.5°	536.3	538.4	553.2	567.9	568.9
45°	507.9	509.0	523.7	534.2	535.3
47.5°	479.5	478.5	491.1	498.5	499.5
50°	448.0	448.0	456.4	460.6	460.6
52.5°	416.4	414.3	418.5	421.7	418.5
55°	382.8	379.6	381.7	381.7	379.6
57.5°	349.1	342.8	343.9	341.8	336.5
60°	316.5	309.2	306.0	298.7	294.5
62.5°	282.9	274.5	268.2	259.7	258.7
65°	249.2	238.7	231.4	221.9	218.7
67.5°	216.6	207.2	196.7	186.1	179.8
70°	184.0	173.5	164.1	150.4	143.0
72.5°	154.6	145.1	133.6	117.8	112.5
75°	125.1	115.7	103.1	89.4	81.0
77.5°	96.7	89.4	75.7	64.1	63.1
80°	74.7	66.3	50.5	47.3	47.3
82.5°	48.4	43.1	35.8	33.7	33.7
85°	29.4	23.1	21.0	21.0	21.0
87.5°	11.6	10.5	10.5	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)