

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: P295605

Luminaire Tested: **14RLN-LD5-23-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-085-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-23-UNV-L93050-W2A1-U-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2173.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.01 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

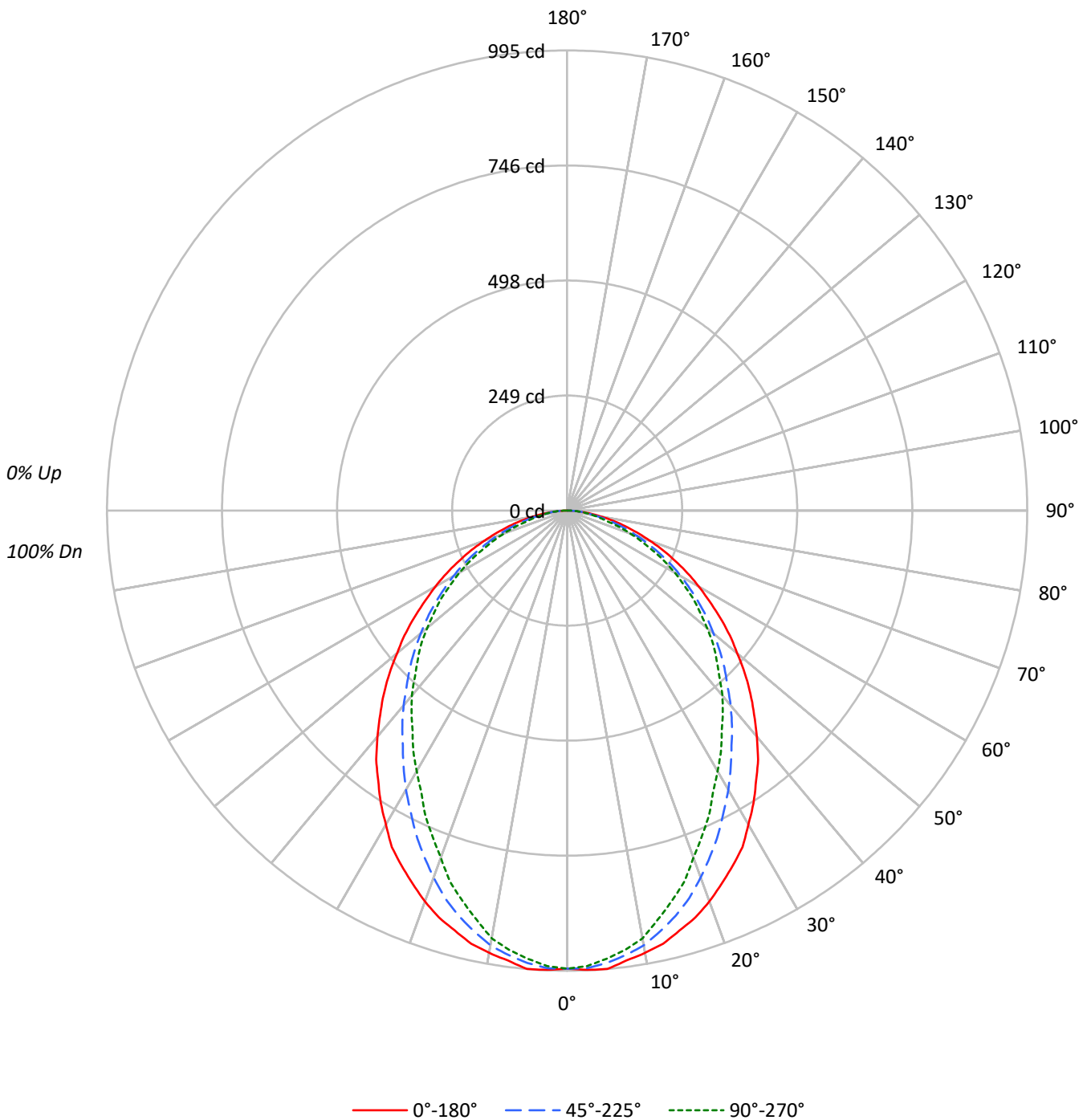
Input Watts (W): 21.204
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2665	2665	2665
5°	2688	2653	2628
10°	2654	2608	2566
15°	2618	2526	2434
20°	2576	2418	2287
25°	2515	2295	2156
30°	2435	2165	2022
35°	2340	2035	1915
40°	2241	1931	1835
45°	2134	1831	1740
50°	2009	1729	1652
55°	1895	1632	1563
60°	1773	1531	1447
65°	1642	1414	1298
70°	1495	1271	1148
75°	1345	1135	935
80°	1151	925	882
85°	936	880	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	4.3
10°-20°	254.5	11.7
20°-30°	357.2	16.4
30°-40°	396.2	18.2
40°-50°	380.3	17.5
50°-60°	318.8	14.7
60°-70°	223.7	10.3
70°-80°	116.8	5.4
80°-90°	32.7	1.5
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°	704.4	32.4
0°-40°	1100.6	50.7
0°-60°	1799.7	82.8
0°-90°	2173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2173.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	990	990	990	990	990	
5°	995	982	982	976	973	94
15°	940	923	907	883	874	265
25°	847	817	773	735	726	390
35°	712	673	620	589	583	446
45°	561	518	481	463	457	432
55°	404	374	348	337	333	361
65°	258	240	222	208	204	256
75°	129	119	109	96	90	137
85°	30	28	28	28	28	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	990.4	990.4	990.4	990.4	990.4
2.5°	994.0	988.5	990.4	990.4	985.8
5°	995.0	982.1	982.1	975.7	972.9
7.5°	981.2	971.1	969.3	961.0	958.2
10°	971.1	961.0	954.6	943.6	939.0
12.5°	959.2	943.6	931.6	913.3	905.9
15°	939.9	923.4	906.8	883.0	873.8
17.5°	922.4	903.2	878.4	851.8	841.7
20°	899.5	876.6	844.4	807.7	798.5
22.5°	872.9	846.3	808.6	769.2	761.8
25°	847.2	816.9	772.8	735.2	726.0
27.5°	820.6	783.8	733.4	693.0	683.8
30°	783.8	746.2	696.7	657.2	650.8
32.5°	749.9	712.3	658.1	626.0	618.6
35°	712.3	672.8	619.6	589.3	582.8
37.5°	678.3	632.4	585.6	556.2	552.5
40°	637.9	596.6	549.8	527.8	522.3
42.5°	598.4	557.1	513.1	493.8	487.4
45°	560.8	517.7	481.0	462.6	457.1
47.5°	521.3	481.9	447.0	432.3	428.6
50°	480.0	445.2	413.0	399.3	394.7
52.5°	443.3	407.5	380.9	368.1	362.6
55°	403.9	373.6	347.9	336.9	333.2
57.5°	364.4	339.6	314.8	304.7	299.2
60°	329.5	304.7	284.5	272.6	268.9
62.5°	293.7	272.6	253.3	242.3	237.7
65°	257.9	240.5	222.1	208.4	203.8
67.5°	224.9	205.6	190.9	179.0	174.4
70°	190.0	176.2	161.5	150.5	145.9
72.5°	157.9	147.8	134.9	123.0	118.4
75°	129.4	119.3	109.2	96.4	89.9
77.5°	101.0	94.5	84.4	73.4	73.4
80°	74.3	70.7	59.7	57.8	56.9
82.5°	51.4	49.6	43.1	42.2	42.2
85°	30.3	28.5	28.5	28.5	28.5
87.5°	12.8	13.8	14.7	14.7	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)