

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: P229563

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-2)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-26-RDP-UNV-L935-CD1-SVPD1-U
Description: METALUX 1X4 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (112)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1884.0 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.31 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

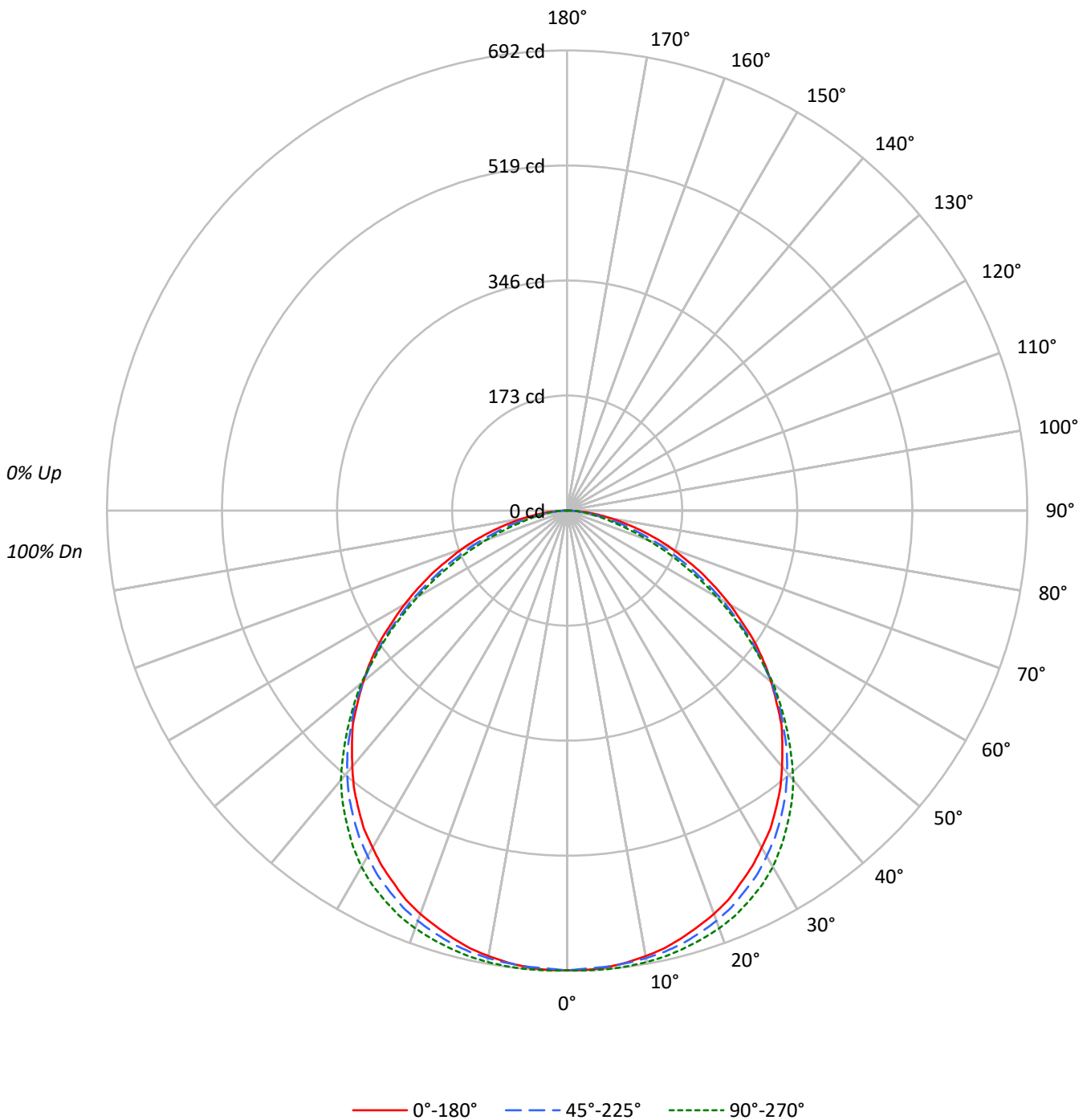
Input Watts (W): 24.72
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2329	2329	2329
5°	2332	2328	2342
10°	2328	2338	2358
15°	2322	2349	2377
20°	2315	2354	2397
25°	2297	2349	2408
30°	2277	2335	2408
35°	2251	2309	2374
40°	2211	2263	2329
45°	2173	2192	2229
50°	2098	2098	2119
55°	2019	1972	1943
60°	1901	1814	1747
65°	1782	1631	1520
70°	1654	1438	1272
75°	1487	1216	1009
80°	1292	945	848
85°	1113	808	808



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	3.5
10°-20°	190.3	10.1
20°-30°	291.7	15.5
30°-40°	351.4	18.6
40°-50°	355.0	18.8
50°-60°	299.6	15.9
60°-70°	203.7	10.8
70°-80°	100.9	5.4
80°-90°	25.8	1.4
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°	547.7	29.1
0°-40°	899.0	47.7
0°-60°	1553.6	82.5
0°-90°	1884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	691	691	691	691	691	
5°	689	689	688	691	692	66
15°	666	668	674	679	681	188
25°	618	623	632	645	648	285
35°	547	551	561	574	577	342
45°	456	453	460	468	468	350
55°	344	337	336	333	331	306
65°	224	213	205	195	191	221
75°	114	105	93	82	78	122
85°	29	22	21	21	21	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	691.3	691.3	691.3	691.3	691.3
2.5°	691.3	691.3	689.3	692.3	692.3
5°	689.3	689.3	688.4	691.3	692.3
7.5°	685.4	686.4	686.4	690.3	691.3
10°	680.4	681.4	683.4	688.4	689.3
12.5°	674.4	676.4	679.4	684.4	686.4
15°	665.5	668.5	673.5	679.4	681.4
17.5°	655.6	659.5	665.5	673.5	675.4
20°	645.6	648.6	656.6	665.5	668.5
22.5°	633.7	637.7	645.6	655.6	659.5
25°	617.8	622.8	631.7	644.6	647.6
27.5°	602.9	607.9	617.8	630.7	634.7
30°	585.1	591.0	600.0	613.9	618.8
32.5°	568.2	571.1	582.1	595.0	599.0
35°	547.3	551.3	561.2	574.1	577.1
37.5°	526.4	529.4	539.4	551.3	554.3
40°	502.6	505.6	514.5	526.4	529.4
42.5°	478.8	480.8	488.7	498.6	498.6
45°	455.9	452.9	459.9	467.8	467.8
47.5°	427.1	427.1	432.1	436.1	436.1
50°	400.3	398.3	400.3	402.3	404.3
52.5°	372.5	368.5	367.5	367.5	366.5
55°	343.7	336.7	335.7	332.8	330.8
57.5°	311.9	306.9	301.0	297.0	295.0
60°	282.1	273.2	269.2	262.2	259.3
62.5°	252.3	244.4	235.4	228.5	225.5
65°	223.5	212.6	204.6	194.7	190.7
67.5°	193.7	183.8	173.8	164.9	160.9
70°	167.9	155.9	146.0	133.1	129.1
72.5°	141.0	130.1	118.2	106.3	101.3
75°	114.2	105.3	93.4	81.5	77.5
77.5°	89.4	81.5	69.5	59.6	58.6
80°	66.6	59.6	48.7	44.7	43.7
82.5°	47.7	39.7	32.8	31.8	31.8
85°	28.8	21.9	20.9	20.9	20.9
87.5°	10.9	9.9	10.9	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)