

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: P295780

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295780
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-L92765-W2A1-U-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2002.0 lumens
Efficiency: N/A
Efficacy: 83.1 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

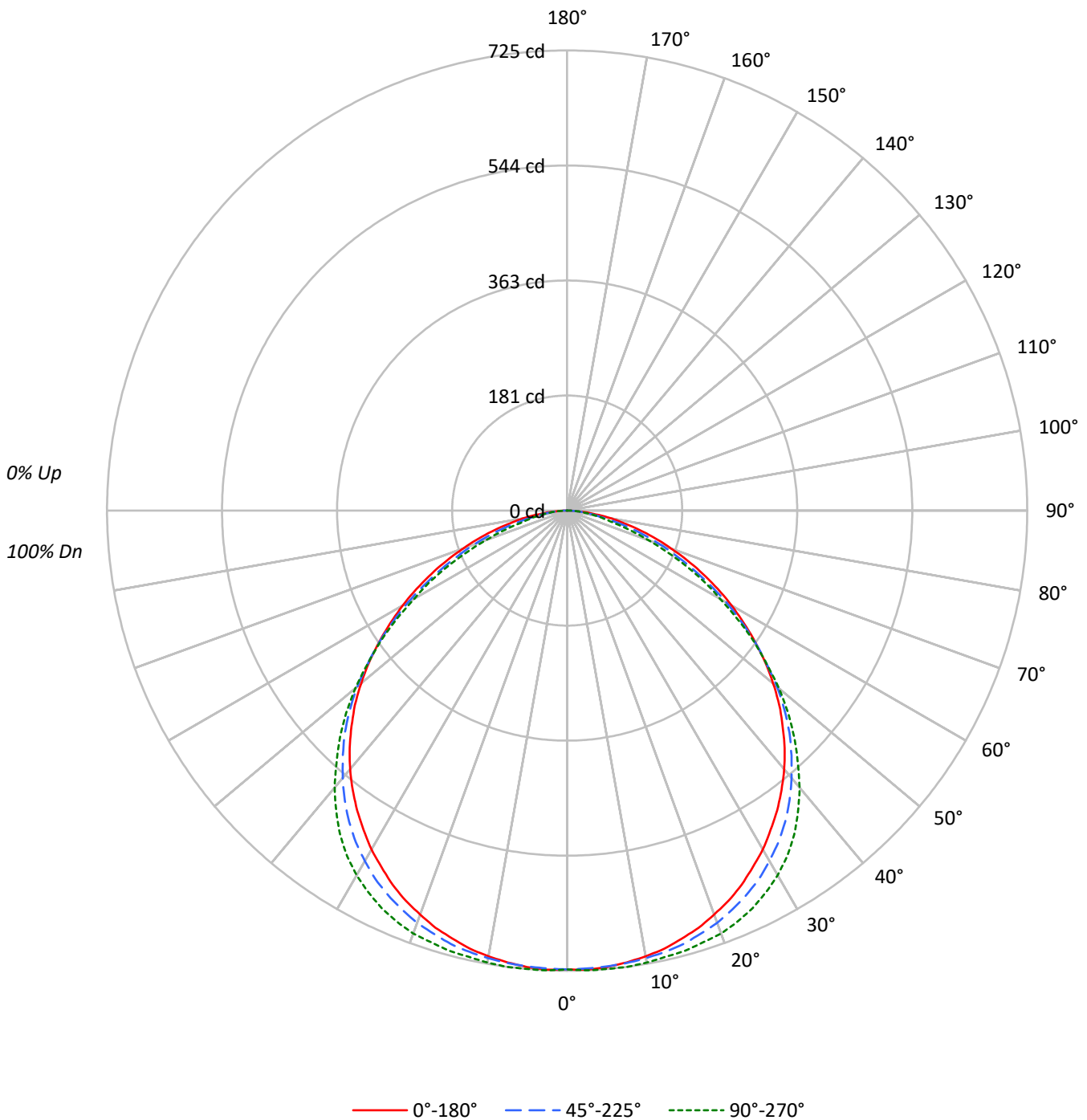
Input Watts (W): 24.087
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1946	1946	1946
5°	1950	1948	1958
10°	1949	1956	1976
15°	1945	1970	2000
20°	1939	1979	2031
25°	1931	1984	2052
30°	1916	1981	2061
35°	1895	1967	2048
40°	1869	1932	2002
45°	1828	1885	1926
50°	1774	1807	1824
55°	1698	1694	1684
60°	1611	1558	1499
65°	1501	1393	1317
70°	1369	1220	1065
75°	1230	1014	796
80°	1094	739	694
85°	858	614	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	3.4
10°-20°	200.0	10.0
20°-30°	308.7	15.4
30°-40°	374.4	18.7
40°-50°	380.1	19.0
50°-60°	321.6	16.1
60°-70°	217.6	10.9
70°-80°	105.2	5.3
80°-90°	25.7	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°	577.5	28.8
0°-40°	951.9	47.5
0°-60°	1653.6	82.6
0°-90°	2002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	723	723	723	723	723	
5°	722	722	721	724	725	69
15°	698	702	707	715	718	197
25°	650	655	668	685	691	300
35°	577	583	599	618	624	361
45°	480	481	495	505	506	370
55°	362	359	361	361	359	324
65°	236	226	219	210	207	234
75°	118	109	98	84	77	126
85°	28	22	20	20	20	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	723.0	723.0	723.0	723.0	723.0
2.5°	724.0	724.0	722.0	724.0	725.0
5°	722.0	722.0	721.0	724.0	725.0
7.5°	718.0	719.0	719.0	723.0	725.0
10°	713.1	715.0	716.0	722.0	723.0
12.5°	707.1	709.1	712.1	719.0	720.0
15°	698.1	702.1	707.1	715.0	718.0
17.5°	689.2	693.2	699.1	710.1	713.1
20°	677.2	682.2	691.2	704.1	709.1
22.5°	665.3	669.3	680.2	696.1	701.1
25°	650.4	655.4	668.3	685.2	691.2
27.5°	633.5	640.5	654.4	672.3	678.2
30°	616.6	622.6	637.5	657.4	663.3
32.5°	596.7	602.7	619.6	638.5	645.4
35°	576.8	582.8	598.7	617.6	623.5
37.5°	554.9	558.9	575.8	591.7	597.7
40°	532.1	535.0	550.0	565.9	569.8
42.5°	507.2	509.2	523.1	537.0	538.0
45°	480.3	481.3	495.3	505.2	506.2
47.5°	453.5	452.5	464.4	471.4	472.4
50°	423.7	423.7	431.6	435.6	435.6
52.5°	393.8	391.8	395.8	398.8	395.8
55°	362.0	359.0	361.0	361.0	359.0
57.5°	330.2	324.2	325.2	323.2	318.2
60°	299.3	292.4	289.4	282.4	278.5
62.5°	267.5	259.6	253.6	245.6	244.6
65°	235.7	225.7	218.8	209.8	206.9
67.5°	204.9	195.9	186.0	176.0	170.1
70°	174.0	164.1	155.1	142.2	135.3
72.5°	146.2	137.2	126.3	111.4	106.4
75°	118.3	109.4	97.5	84.5	76.6
77.5°	91.5	84.5	71.6	60.7	59.7
80°	70.6	62.7	47.7	44.8	44.8
82.5°	45.7	40.8	33.8	31.8	31.8
85°	27.8	21.9	19.9	19.9	19.9
87.5°	10.9	9.9	9.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)