

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: P295637

Luminaire Tested: **14RLN-LD5-26-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295637
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-LD5-26-UNV-L92765-W2A1-U-2700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2094.0 lumens
Efficiency: N/A
Efficacy: 88.3 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

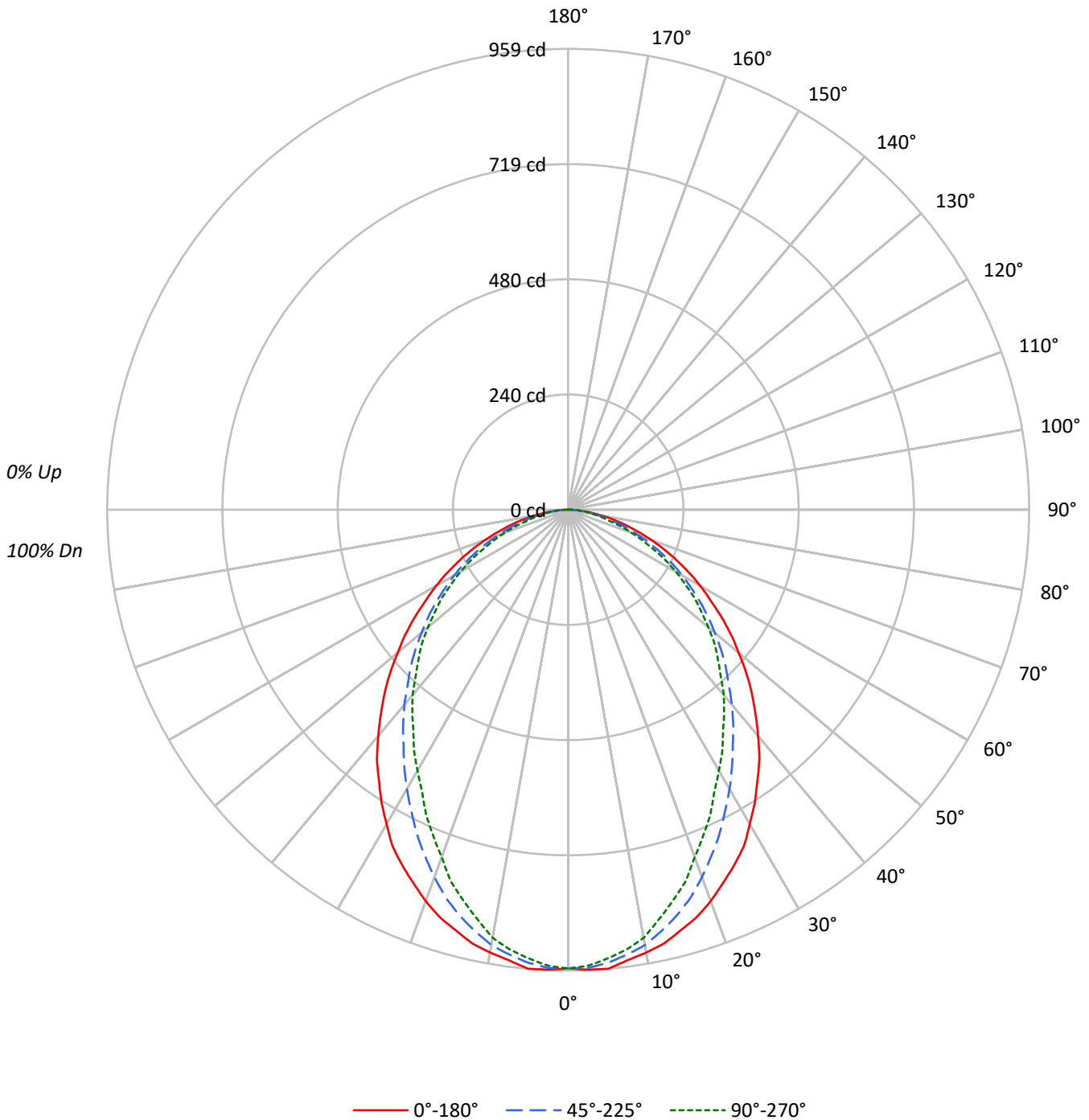
Input Watts (W): 23.715
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47					47			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33					33			
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2568	2568	2568
5°	2590	2556	2533
10°	2557	2514	2472
15°	2523	2435	2346
20°	2482	2330	2204
25°	2424	2211	2077
30°	2347	2086	1949
35°	2255	1961	1845
40°	2159	1861	1768
45°	2057	1764	1676
50°	1937	1666	1592
55°	1826	1573	1506
60°	1709	1476	1395
65°	1582	1363	1251
70°	1441	1225	1106
75°	1297	1095	901
80°	1110	891	849
85°	902	846	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	4.3
10°-20°	245.3	11.7
20°-30°	344.2	16.4
30°-40°	381.8	18.2
40°-50°	366.5	17.5
50°-60°	307.2	14.7
60°-70°	215.6	10.3
70°-80°	112.6	5.4
80°-90°	31.5	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°	678.8	32.4
0°-40°	1060.6	50.6
0°-60°	1734.3	82.8
0°-90°	2094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	959	946	946	940	938	91
15°	906	890	874	851	842	256
25°	816	787	745	708	700	376
35°	686	648	597	568	562	430
45°	540	499	464	446	440	416
55°	389	360	335	325	321	348
65°	248	232	214	201	196	247
75°	125	115	105	93	87	132
85°	29	27	27	27	27	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	954.4	954.4	954.4	954.4	954.4
2.5°	957.9	952.6	954.4	954.4	949.9
5°	958.8	946.4	946.4	940.2	937.6
7.5°	945.5	935.8	934.0	926.1	923.4
10°	935.8	926.1	919.9	909.3	904.8
12.5°	924.3	909.3	897.8	880.1	873.0
15°	905.7	889.8	873.9	850.9	842.0
17.5°	888.9	870.3	846.5	820.8	811.1
20°	866.8	844.7	813.7	778.3	769.5
22.5°	841.1	815.5	779.2	741.2	734.1
25°	816.4	787.2	744.7	708.5	699.6
27.5°	790.7	755.4	706.7	667.8	658.9
30°	755.4	719.1	671.3	633.3	627.1
32.5°	722.6	686.4	634.2	603.2	596.1
35°	686.4	648.3	597.0	567.8	561.6
37.5°	653.6	609.4	564.3	536.0	532.5
40°	614.7	574.9	529.8	508.6	503.3
42.5°	576.7	536.9	494.4	475.9	469.7
45°	540.4	498.9	463.5	445.8	440.5
47.5°	502.4	464.4	430.7	416.6	413.1
50°	462.6	429.0	398.0	384.8	380.3
52.5°	427.2	392.7	367.1	354.7	349.4
55°	389.2	360.0	335.2	324.6	321.1
57.5°	351.1	327.3	303.4	293.6	288.3
60°	317.5	293.6	274.2	262.7	259.2
62.5°	283.0	262.7	244.1	233.5	229.1
65°	248.5	231.7	214.0	200.8	196.4
67.5°	216.7	198.1	184.0	172.5	168.1
70°	183.1	169.8	155.7	145.1	140.6
72.5°	152.1	142.4	130.0	118.5	114.1
75°	124.7	115.0	105.3	92.9	86.7
77.5°	97.3	91.1	81.4	70.8	70.8
80°	71.6	68.1	57.5	55.7	54.8
82.5°	49.5	47.8	41.6	40.7	40.7
85°	29.2	27.4	27.4	27.4	27.4
87.5°	12.4	13.3	14.2	14.2	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)