

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: P295701

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295701
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-LD5-23-RDP-UNV-L82765-W2A1-U-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2004.0 lumens
Efficiency: N/A
Efficacy: 95.8 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

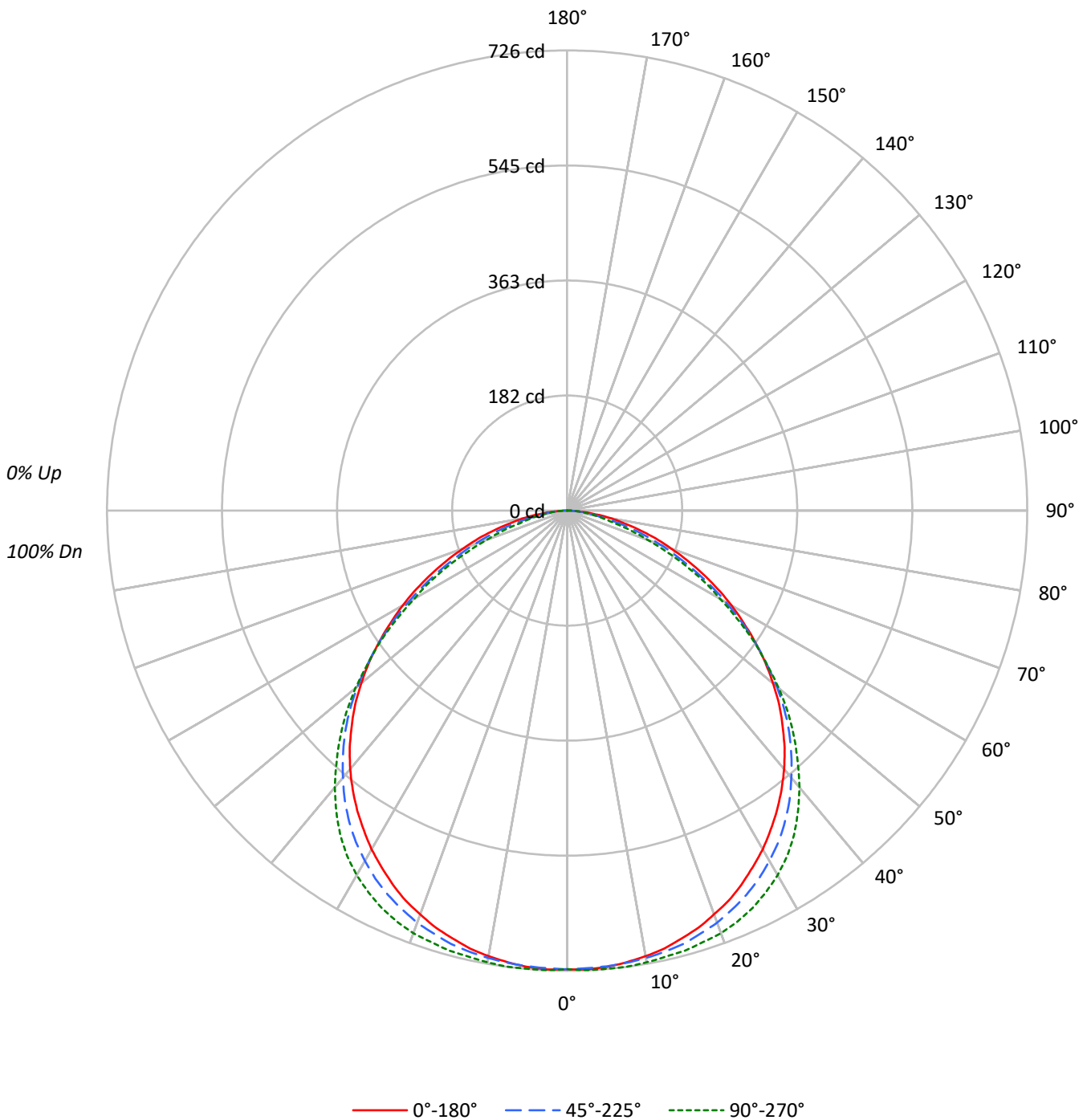
Input Watts (W): 20.925
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1947	1947	1947
5°	1952	1949	1960
10°	1950	1958	1978
15°	1947	1972	2002
20°	1941	1981	2033
25°	1933	1986	2054
30°	1918	1983	2063
35°	1897	1969	2051
40°	1871	1934	2004
45°	1830	1887	1928
50°	1775	1809	1825
55°	1700	1696	1686
60°	1612	1559	1500
65°	1502	1394	1319
70°	1371	1222	1065
75°	1232	1015	797
80°	1096	741	694
85°	861	614	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	3.4
10°-20°	200.2	10.0
20°-30°	309.0	15.4
30°-40°	374.8	18.7
40°-50°	380.5	19.0
50°-60°	321.9	16.1
60°-70°	217.8	10.9
70°-80°	105.3	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°	578.1	28.8
0°-40°	952.9	47.5
0°-60°	1655.2	82.6
0°-90°	2004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	723	723	722	725	726	69
15°	699	703	708	716	719	197
25°	651	656	669	686	692	300
35°	577	583	599	618	624	361
45°	481	482	496	506	507	371
55°	362	359	361	361	359	324
65°	236	226	219	210	207	234
75°	118	110	98	85	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°	723.7	723.7	723.7	723.7	723.7
2.5°	724.7	724.7	722.7	724.7	725.7
5°	722.7	722.7	721.7	724.7	725.7
7.5°	718.7	719.7	719.7	723.7	725.7
10°	713.8	715.8	716.7	722.7	723.7
12.5°	707.8	709.8	712.8	719.7	720.7
15°	698.8	702.8	707.8	715.8	718.7
17.5°	689.9	693.9	699.8	710.8	713.8
20°	677.9	682.9	691.9	704.8	709.8
22.5°	666.0	670.0	680.9	696.8	701.8
25°	651.0	656.0	669.0	685.9	691.9
27.5°	634.1	641.1	655.0	672.9	678.9
30°	617.2	623.2	638.1	658.0	664.0
32.5°	597.3	603.3	620.2	639.1	646.1
35°	577.4	583.4	599.3	618.2	624.2
37.5°	555.5	559.5	576.4	592.3	598.3
40°	532.6	535.6	550.5	566.4	570.4
42.5°	507.7	509.7	523.6	537.6	538.6
45°	480.8	481.8	495.8	505.7	506.7
47.5°	453.9	452.9	464.9	471.9	472.9
50°	424.1	424.1	432.0	436.0	436.0
52.5°	394.2	392.2	396.2	399.2	396.2
55°	362.4	359.4	361.4	361.4	359.4
57.5°	330.5	324.5	325.5	323.5	318.6
60°	299.6	292.7	289.7	282.7	278.7
62.5°	267.8	259.8	253.8	245.9	244.9
65°	235.9	226.0	219.0	210.0	207.1
67.5°	205.1	196.1	186.2	176.2	170.2
70°	174.2	164.3	155.3	142.4	135.4
72.5°	146.3	137.4	126.4	111.5	106.5
75°	118.5	109.5	97.6	84.6	76.7
77.5°	91.6	84.6	71.7	60.7	59.7
80°	70.7	62.7	47.8	44.8	44.8
82.5°	45.8	40.8	33.8	31.9	31.9
85°	27.9	21.9	19.9	19.9	19.9
87.5°	11.0	10.0	10.0	10.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)