

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: P295674

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295674
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-L83050-W2A1-U-3500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2008.0 lumens
Efficiency: N/A
Efficacy: 97.3 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

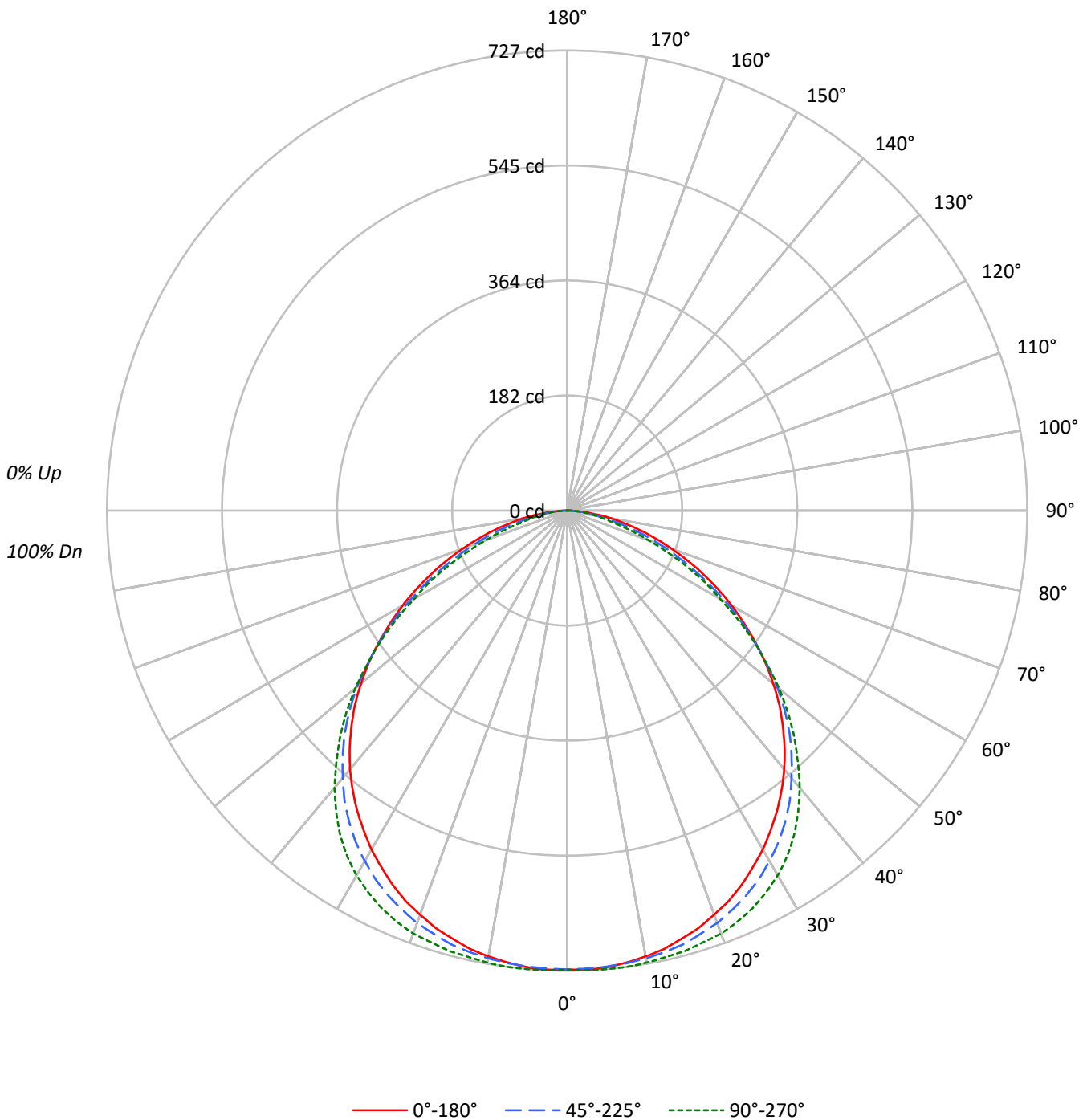
Input Watts (W): 20.646
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1951	1951	1951
5°	1956	1954	1964
10°	1954	1962	1982
15°	1951	1976	2006
20°	1945	1985	2037
25°	1937	1990	2058
30°	1922	1987	2067
35°	1900	1973	2054
40°	1874	1938	2008
45°	1834	1890	1932
50°	1779	1812	1829
55°	1704	1699	1689
60°	1616	1562	1503
65°	1505	1397	1321
70°	1374	1224	1068
75°	1234	1017	799
80°	1097	742	696
85°	861	614	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	3.4
10°-20°	200.6	10.0
20°-30°	309.6	15.4
30°-40°	375.5	18.7
40°-50°	381.2	19.0
50°-60°	322.5	16.1
60°-70°	218.2	10.9
70°-80°	105.5	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°	579.3	28.8
0°-40°	954.8	47.5
0°-60°	1658.5	82.6
0°-90°	2008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	724	724	723	726	727	69
15°	700	704	709	717	720	198
25°	652	657	670	687	693	300
35°	578	584	600	619	625	362
45°	482	483	497	507	508	371
55°	363	360	362	362	360	325
65°	236	226	219	210	208	234
75°	119	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°	725.2	725.2	725.2	725.2	725.2
2.5°	726.2	726.2	724.2	726.2	727.2
5°	724.2	724.2	723.2	726.2	727.2
7.5°	720.2	721.2	721.2	725.2	727.2
10°	715.2	717.2	718.2	724.2	725.2
12.5°	709.2	711.2	714.2	721.2	722.2
15°	700.2	704.2	709.2	717.2	720.2
17.5°	691.2	695.2	701.2	712.2	715.2
20°	679.3	684.3	693.2	706.2	711.2
22.5°	667.3	671.3	682.3	698.2	703.2
25°	652.3	657.3	670.3	687.3	693.2
27.5°	635.4	642.4	656.3	674.3	680.3
30°	618.4	624.4	639.4	659.3	665.3
32.5°	598.5	604.5	621.4	640.4	647.4
35°	578.5	584.5	600.5	619.4	625.4
37.5°	556.6	560.6	577.5	593.5	599.5
40°	533.6	536.6	551.6	567.6	571.6
42.5°	508.7	510.7	524.7	538.6	539.6
45°	481.8	482.8	496.7	506.7	507.7
47.5°	454.8	453.8	465.8	472.8	473.8
50°	424.9	424.9	432.9	436.9	436.9
52.5°	395.0	393.0	397.0	400.0	397.0
55°	363.1	360.1	362.1	362.1	360.1
57.5°	331.2	325.2	326.2	324.2	319.2
60°	300.2	293.3	290.3	283.3	279.3
62.5°	268.3	260.3	254.4	246.4	245.4
65°	236.4	226.4	219.4	210.5	207.5
67.5°	205.5	196.5	186.5	176.6	170.6
70°	174.6	164.6	155.6	142.6	135.7
72.5°	146.6	137.7	126.7	111.7	106.7
75°	118.7	109.7	97.8	84.8	76.8
77.5°	91.8	84.8	71.8	60.8	59.8
80°	70.8	62.8	47.9	44.9	44.9
82.5°	45.9	40.9	33.9	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)