

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: P295675

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295675
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-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: 2108.0 lumens
Efficiency: N/A
Efficacy: 99.9 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

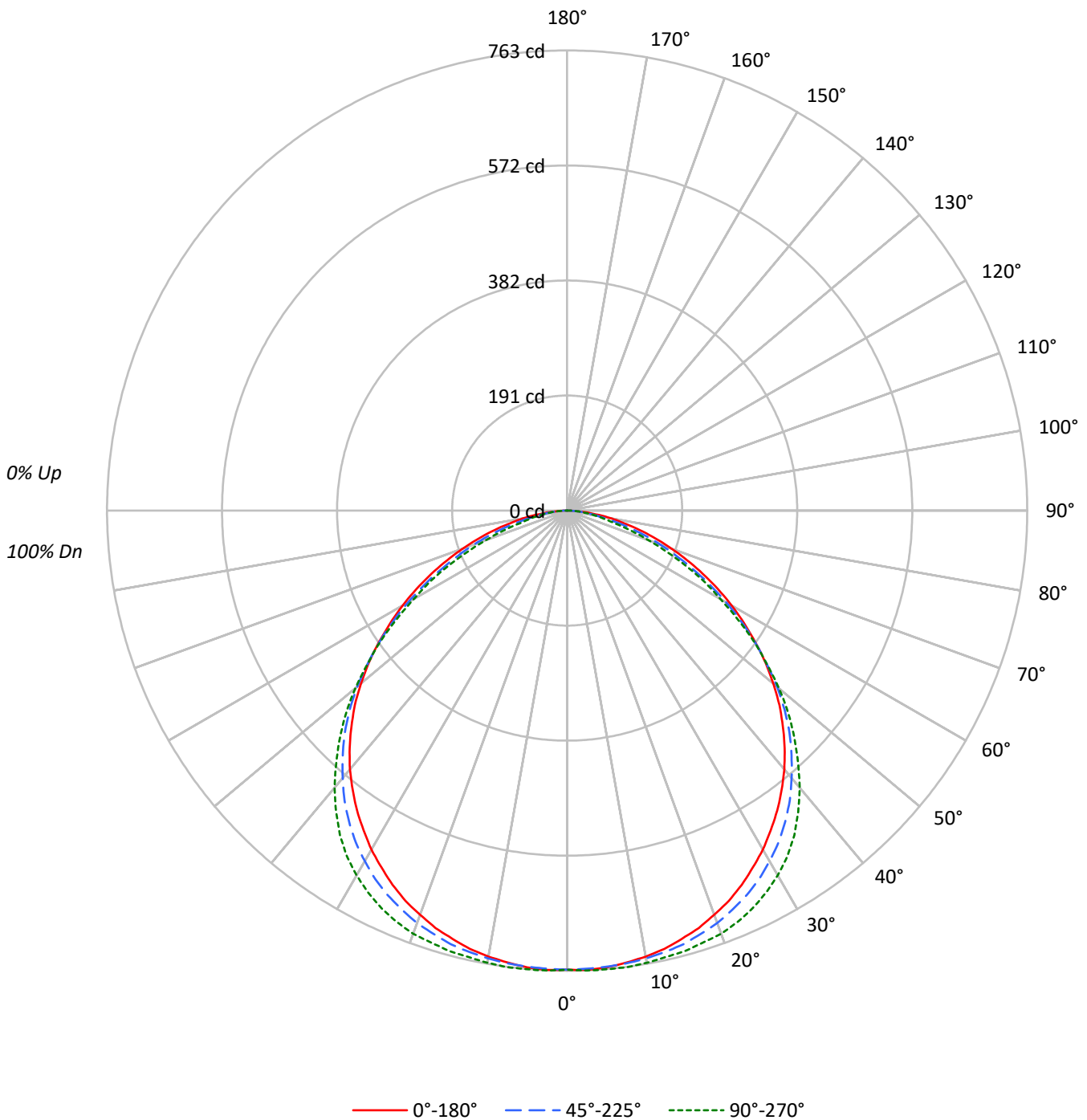
Input Watts (W): 21.111
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2049	2049	2049
5°	2053	2051	2062
10°	2052	2060	2080
15°	2048	2074	2106
20°	2042	2084	2138
25°	2033	2089	2161
30°	2017	2086	2170
35°	1995	2071	2157
40°	1968	2034	2108
45°	1925	1985	2028
50°	1868	1903	1920
55°	1788	1783	1773
60°	1696	1640	1578
65°	1580	1467	1387
70°	1442	1286	1120
75°	1295	1067	838
80°	1151	779	730
85°	905	645	645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	3.4
10°-20°	210.6	10.0
20°-30°	325.0	15.4
30°-40°	394.2	18.7
40°-50°	400.2	19.0
50°-60°	338.6	16.1
60°-70°	229.1	10.9
70°-80°	110.8	5.3
80°-90°	27.0	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°	608.1	28.8
0°-40°	1002.3	47.5
0°-60°	1741.2	82.6
0°-90°	2108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2108.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	761	761	761	761	761	
5°	760	760	759	762	763	72
15°	735	739	744	753	756	208
25°	685	690	704	722	728	315
35°	607	614	630	650	657	380
45°	506	507	522	532	533	390
55°	381	378	380	380	378	341
65°	248	238	230	221	218	246
75°	125	115	103	89	81	133
85°	29	23	21	21	21	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	761.3	761.3	761.3	761.3	761.3
2.5°	762.3	762.3	760.2	762.3	763.4
5°	760.2	760.2	759.2	762.3	763.4
7.5°	756.0	757.1	757.1	761.3	763.4
10°	750.8	752.9	753.9	760.2	761.3
12.5°	744.5	746.6	749.8	757.1	758.1
15°	735.1	739.3	744.5	752.9	756.0
17.5°	725.7	729.9	736.1	747.7	750.8
20°	713.1	718.3	727.8	741.4	746.6
22.5°	700.5	704.7	716.2	733.0	738.2
25°	684.8	690.1	703.7	721.5	727.8
27.5°	667.0	674.4	689.0	707.9	714.2
30°	649.2	655.5	671.2	692.2	698.4
32.5°	628.3	634.6	652.4	672.3	679.6
35°	607.3	613.6	630.4	650.3	656.6
37.5°	584.3	588.5	606.3	623.1	629.3
40°	560.2	563.4	579.1	595.8	600.0
42.5°	534.0	536.1	550.8	565.5	566.5
45°	505.8	506.8	521.5	532.0	533.0
47.5°	477.5	476.5	489.0	496.3	497.4
50°	446.1	446.1	454.5	458.7	458.7
52.5°	414.7	412.6	416.8	419.9	416.8
55°	381.2	378.0	380.1	380.1	378.0
57.5°	347.7	341.4	342.4	340.3	335.1
60°	315.2	307.9	304.7	297.4	293.2
62.5°	281.7	273.3	267.0	258.6	257.6
65°	248.2	237.7	230.4	220.9	217.8
67.5°	215.7	206.3	195.8	185.3	179.1
70°	183.3	172.8	163.4	149.7	142.4
72.5°	153.9	144.5	133.0	117.3	112.0
75°	124.6	115.2	102.6	89.0	80.6
77.5°	96.3	89.0	75.4	63.9	62.8
80°	74.3	66.0	50.3	47.1	47.1
82.5°	48.2	42.9	35.6	33.5	33.5
85°	29.3	23.0	20.9	20.9	20.9
87.5°	11.5	10.5	10.5	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)