

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: P295774

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295774
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-L92765-W2A1-U-5500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1885.0 lumens
Efficiency: N/A
Efficacy: 88.9 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

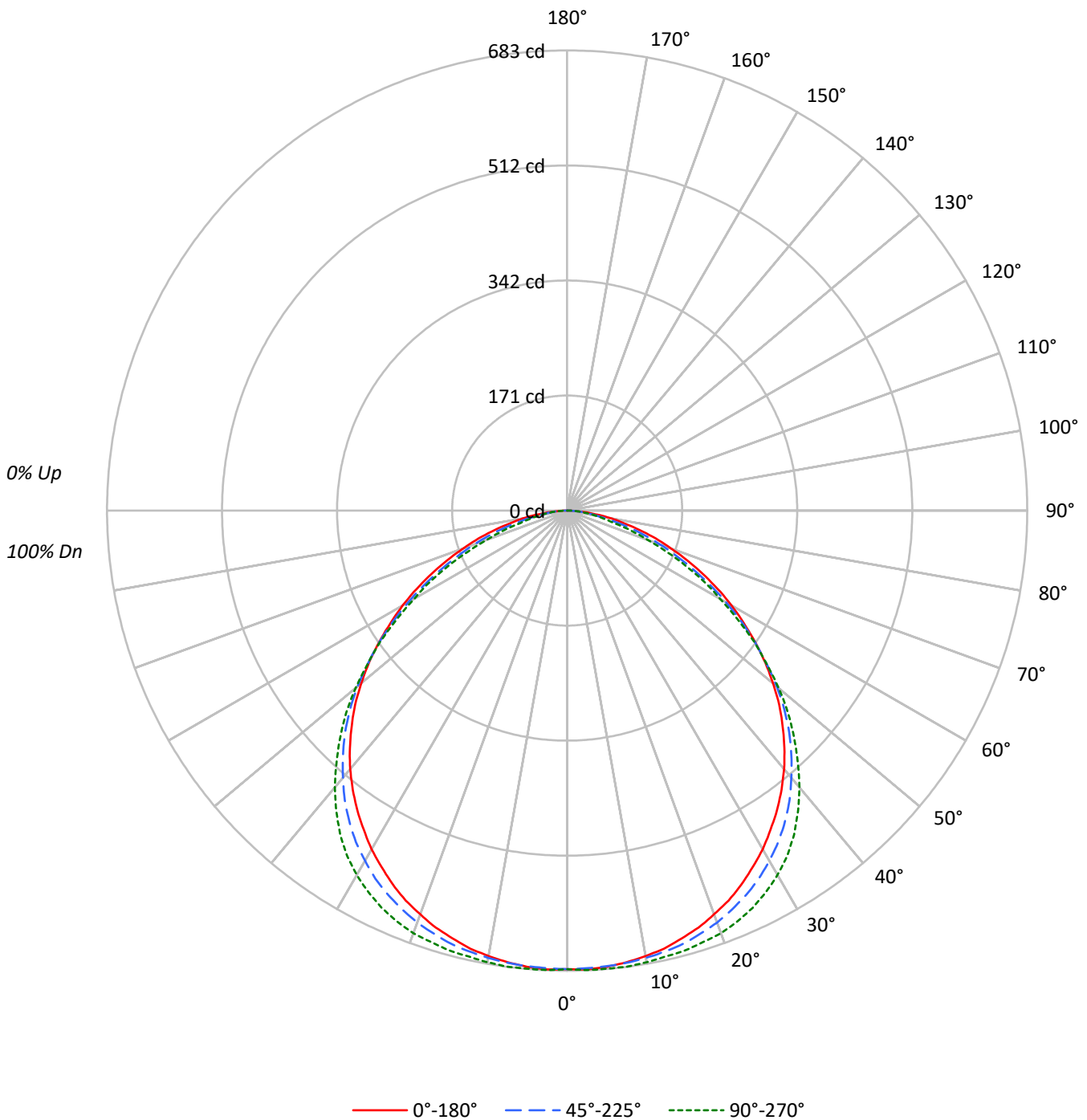
Input Watts (W): 21.204
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1832	1832	1832
5°	1836	1834	1844
10°	1835	1842	1860
15°	1831	1855	1884
20°	1826	1864	1912
25°	1818	1868	1932
30°	1804	1865	1941
35°	1784	1852	1929
40°	1760	1819	1885
45°	1721	1775	1814
50°	1670	1701	1717
55°	1599	1595	1586
60°	1517	1467	1411
65°	1413	1312	1240
70°	1290	1149	1002
75°	1158	954	750
80°	1031	696	652
85°	809	577	577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	3.4
10°-20°	188.3	10.0
20°-30°	290.7	15.4
30°-40°	352.5	18.7
40°-50°	357.9	19.0
50°-60°	302.8	16.1
60°-70°	204.8	10.9
70°-80°	99.0	5.3
80°-90°	24.2	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°	543.8	28.8
0°-40°	896.3	47.5
0°-60°	1556.9	82.6
0°-90°	1885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1885.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	680	680	679	682	683	65
15°	657	661	666	673	676	186
25°	612	617	629	645	651	282
35°	543	549	564	582	587	340
45°	452	453	466	476	477	349
55°	341	338	340	340	338	305
65°	222	213	206	198	195	220
75°	111	103	92	80	72	119
85°	26	21	19	19	19	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	680.7	680.7	680.7	680.7	680.7
2.5°	681.7	681.7	679.8	681.7	682.6
5°	679.8	679.8	678.9	681.7	682.6
7.5°	676.1	677.0	677.0	680.7	682.6
10°	671.4	673.3	674.2	679.8	680.7
12.5°	665.8	667.6	670.4	677.0	677.9
15°	657.3	661.1	665.8	673.3	676.1
17.5°	648.9	652.7	658.3	668.6	671.4
20°	637.7	642.4	650.8	663.0	667.6
22.5°	626.4	630.2	640.5	655.5	660.1
25°	612.4	617.1	629.2	645.2	650.8
27.5°	596.5	603.0	616.1	633.0	638.6
30°	580.6	586.2	600.2	618.9	624.6
32.5°	561.8	567.4	583.4	601.2	607.7
35°	543.1	548.7	563.7	581.5	587.1
37.5°	522.5	526.2	542.2	557.1	562.8
40°	501.0	503.8	517.8	532.8	536.5
42.5°	477.5	479.4	492.5	505.6	506.6
45°	452.3	453.2	466.3	475.7	476.6
47.5°	427.0	426.0	437.3	443.8	444.8
50°	398.9	398.9	406.4	410.1	410.1
52.5°	370.8	368.9	372.7	375.5	372.7
55°	340.8	338.0	339.9	339.9	338.0
57.5°	310.9	305.3	306.2	304.3	299.6
60°	281.8	275.3	272.5	265.9	262.2
62.5°	251.9	244.4	238.8	231.3	230.3
65°	221.9	212.6	206.0	197.6	194.8
67.5°	192.9	184.5	175.1	165.7	160.1
70°	163.9	154.5	146.1	133.9	127.3
72.5°	137.6	129.2	118.9	104.9	100.2
75°	111.4	103.0	91.8	79.6	72.1
77.5°	86.1	79.6	67.4	57.1	56.2
80°	66.5	59.0	44.9	42.1	42.1
82.5°	43.1	38.4	31.8	30.0	30.0
85°	26.2	20.6	18.7	18.7	18.7
87.5°	10.3	9.4	9.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)