

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: P295746

Luminaire Tested: **14RLN-LD5-23-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295746
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-L93050-W2A1-U-4500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1875.0 lumens
Efficiency: N/A
Efficacy: 87.3 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

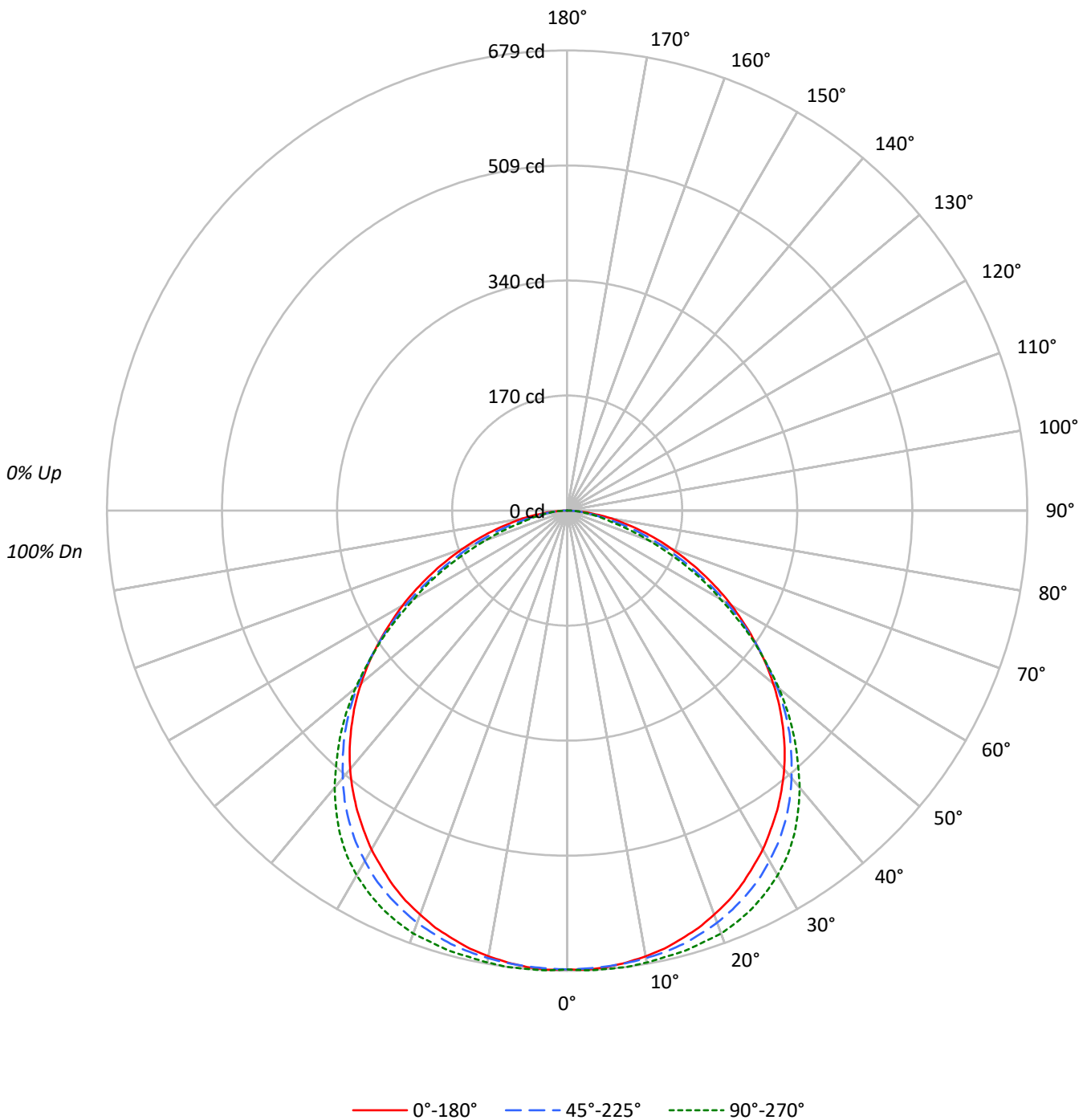
Input Watts (W): 21.483
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1822	1822	1822
5°	1827	1824	1834
10°	1825	1832	1850
15°	1821	1845	1874
20°	1816	1854	1902
25°	1809	1858	1922
30°	1794	1855	1930
35°	1775	1842	1918
40°	1750	1809	1875
45°	1712	1765	1804
50°	1661	1692	1708
55°	1590	1586	1577
60°	1509	1459	1404
65°	1405	1305	1233
70°	1282	1143	997
75°	1152	949	745
80°	1024	693	649
85°	806	574	574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	3.4
10°-20°	187.3	10.0
20°-30°	289.1	15.4
30°-40°	350.6	18.7
40°-50°	356.0	19.0
50°-60°	301.2	16.1
60°-70°	203.8	10.9
70°-80°	98.5	5.3
80°-90°	24.0	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°	540.9	28.8
0°-40°	891.5	47.5
0°-60°	1548.7	82.6
0°-90°	1875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	677	677	677	677	677	
5°	676	676	675	678	679	64
15°	654	658	662	670	672	185
25°	609	614	626	642	647	281
35°	540	546	561	578	584	338
45°	450	451	464	473	474	347
55°	339	336	338	338	336	303
65°	221	211	205	196	194	219
75°	111	102	91	79	72	118
85°	26	20	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°	677.1	677.1	677.1	677.1	677.1
2.5°	678.1	678.1	676.2	678.1	679.0
5°	676.2	676.2	675.3	678.1	679.0
7.5°	672.5	673.4	673.4	677.1	679.0
10°	667.8	669.7	670.6	676.2	677.1
12.5°	662.2	664.1	666.9	673.4	674.3
15°	653.8	657.6	662.2	669.7	672.5
17.5°	645.5	649.2	654.8	665.0	667.8
20°	634.3	638.9	647.3	659.4	664.1
22.5°	623.1	626.8	637.1	652.0	656.6
25°	609.1	613.8	625.9	641.7	647.3
27.5°	593.3	599.8	612.9	629.6	635.2
30°	577.5	583.1	597.0	615.7	621.2
32.5°	558.8	564.4	580.3	598.0	604.5
35°	540.2	545.8	560.7	578.4	584.0
37.5°	519.7	523.4	539.3	554.2	559.8
40°	498.3	501.1	515.1	530.0	533.7
42.5°	475.0	476.9	489.9	503.0	503.9
45°	449.9	450.8	463.8	473.2	474.1
47.5°	424.7	423.8	435.0	441.5	442.4
50°	396.8	396.8	404.2	408.0	408.0
52.5°	368.8	367.0	370.7	373.5	370.7
55°	339.0	336.2	338.1	338.1	336.2
57.5°	309.2	303.6	304.6	302.7	298.0
60°	280.4	273.8	271.0	264.5	260.8
62.5°	250.5	243.1	237.5	230.1	229.1
65°	220.7	211.4	204.9	196.5	193.7
67.5°	191.9	183.5	174.2	164.9	159.3
70°	163.0	153.7	145.3	133.2	126.7
72.5°	136.9	128.5	118.3	104.3	99.7
75°	110.8	102.5	91.3	79.2	71.7
77.5°	85.7	79.2	67.1	56.8	55.9
80°	66.1	58.7	44.7	41.9	41.9
82.5°	42.8	38.2	31.7	29.8	29.8
85°	26.1	20.5	18.6	18.6	18.6
87.5°	10.2	9.3	9.3	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)