

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: P295749

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295749
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-LD5-26-RDP-UNV-L93050-W2A1-U-3500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1927.0 lumens
Efficiency: N/A
Efficacy: 79.4 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

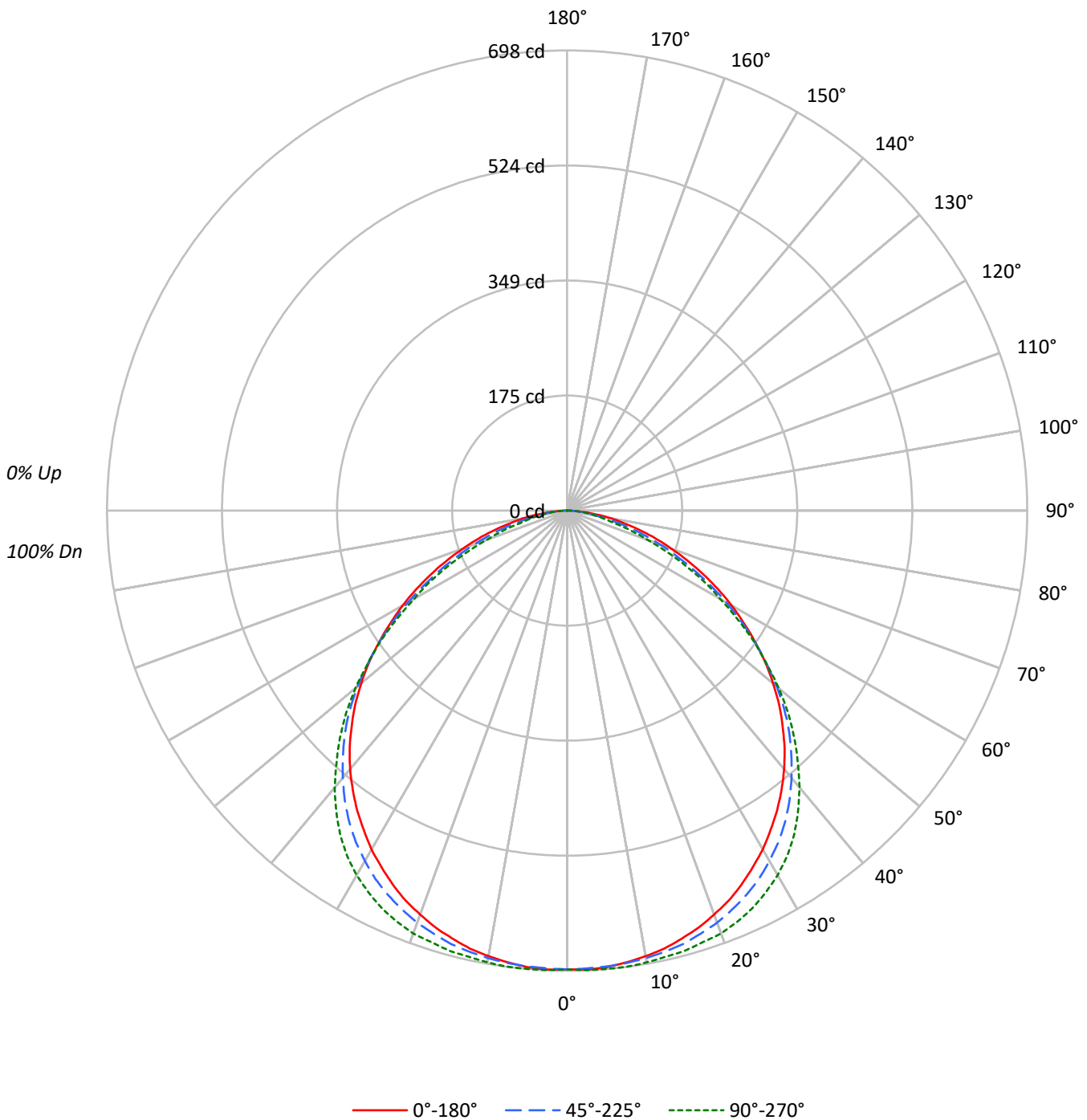
Input Watts (W): 24.273
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1873	1873	1873
5°	1877	1875	1885
10°	1875	1883	1902
15°	1872	1896	1925
20°	1867	1905	1954
25°	1859	1910	1975
30°	1844	1907	1984
35°	1824	1893	1972
40°	1799	1860	1927
45°	1759	1814	1854
50°	1707	1739	1755
55°	1635	1630	1621
60°	1551	1499	1442
65°	1445	1341	1268
70°	1318	1175	1024
75°	1184	975	766
80°	1054	711	668
85°	827	590	590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	3.4
10°-20°	192.5	10.0
20°-30°	297.1	15.4
30°-40°	360.4	18.7
40°-50°	365.9	19.0
50°-60°	309.5	16.1
60°-70°	209.4	10.9
70°-80°	101.3	5.3
80°-90°	24.7	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°	555.9	28.8
0°-40°	916.3	47.5
0°-60°	1591.7	82.6
0°-90°	1927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	695	695	694	697	698	66
15°	672	676	681	688	691	190
25°	626	631	643	660	665	288
35°	555	561	576	594	600	347
45°	462	463	477	486	487	356
55°	348	346	348	348	346	311
65°	227	217	211	202	199	225
75°	114	105	94	81	74	121
85°	27	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°	695.9	695.9	695.9	695.9	695.9
2.5°	696.9	696.9	695.0	696.9	697.8
5°	695.0	695.0	694.0	696.9	697.8
7.5°	691.1	692.1	692.1	695.9	697.8
10°	686.3	688.3	689.2	695.0	695.9
12.5°	680.6	682.5	685.4	692.1	693.0
15°	672.0	675.8	680.6	688.3	691.1
17.5°	663.4	667.2	672.9	683.5	686.3
20°	651.9	656.7	665.3	677.7	682.5
22.5°	640.4	644.2	654.7	670.1	674.9
25°	626.0	630.8	643.3	659.5	665.3
27.5°	609.8	616.5	629.9	647.1	652.8
30°	593.5	599.2	613.6	632.7	638.5
32.5°	574.3	580.1	596.4	614.5	621.2
35°	555.2	560.9	576.3	594.4	600.2
37.5°	534.1	538.0	554.2	569.6	575.3
40°	512.1	515.0	529.4	544.7	548.5
42.5°	488.2	490.1	503.5	516.9	517.9
45°	462.3	463.3	476.7	486.3	487.2
47.5°	436.5	435.5	447.0	453.7	454.7
50°	407.8	407.8	415.4	419.3	419.3
52.5°	379.1	377.2	381.0	383.9	381.0
55°	348.4	345.6	347.5	347.5	345.6
57.5°	317.8	312.1	313.0	311.1	306.3
60°	288.1	281.4	278.6	271.9	268.0
62.5°	257.5	249.8	244.1	236.4	235.5
65°	226.9	217.3	210.6	202.0	199.1
67.5°	197.2	188.6	179.0	169.4	163.7
70°	167.5	157.9	149.3	136.9	130.2
72.5°	140.7	132.1	121.6	107.2	102.4
75°	113.9	105.3	93.8	81.4	73.7
77.5°	88.1	81.4	68.9	58.4	57.4
80°	68.0	60.3	45.9	43.1	43.1
82.5°	44.0	39.2	32.5	30.6	30.6
85°	26.8	21.1	19.1	19.1	19.1
87.5°	10.5	9.6	9.6	9.6	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)