

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: P295715

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295715
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-L82765-W2A1-U-6500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2369.0 lumens
Efficiency: N/A
Efficacy: 95.4 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

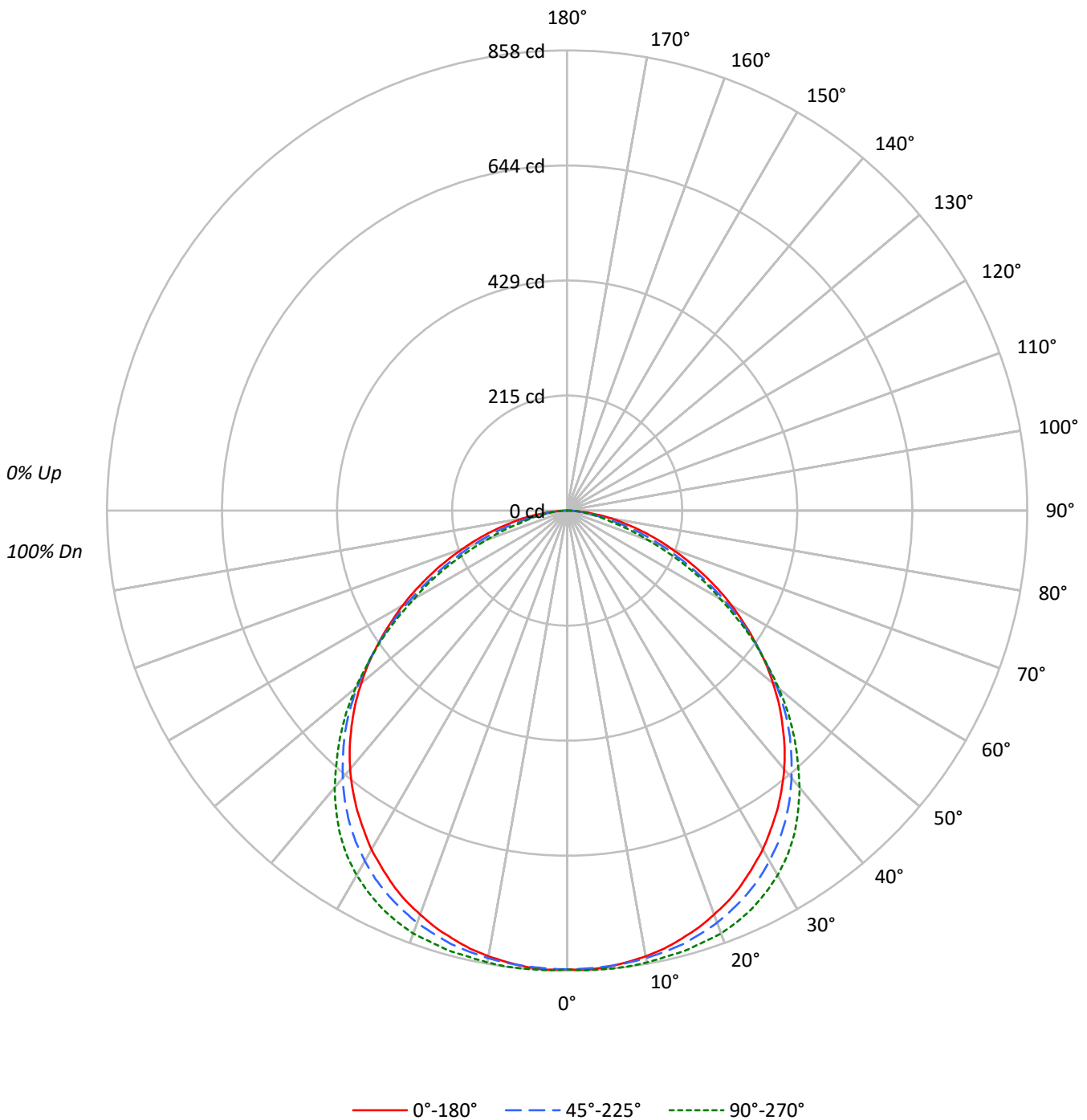
Input Watts (W): 24.831
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2302	2302	2302
5°	2308	2305	2317
10°	2306	2315	2338
15°	2301	2331	2367
20°	2295	2342	2403
25°	2285	2348	2428
30°	2267	2344	2439
35°	2242	2327	2424
40°	2212	2286	2369
45°	2163	2230	2280
50°	2099	2138	2158
55°	2010	2004	1993
60°	1906	1843	1773
65°	1776	1649	1559
70°	1620	1445	1259
75°	1456	1199	942
80°	1296	876	821
85°	1019	726	726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	3.4
10°-20°	236.7	10.0
20°-30°	365.3	15.4
30°-40°	443.0	18.7
40°-50°	449.8	19.0
50°-60°	380.5	16.1
60°-70°	257.4	10.9
70°-80°	124.5	5.3
80°-90°	30.4	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°	683.4	28.8
0°-40°	1126.4	47.5
0°-60°	1956.7	82.6
0°-90°	2369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	854	854	853	857	858	81
15°	826	831	837	846	850	233
25°	770	776	791	811	818	354
35°	682	690	708	731	738	427
45°	568	570	586	598	599	438
55°	428	425	427	427	425	383
65°	279	267	259	248	245	276
75°	140	129	115	100	91	149
85°	33	26	24	24	24	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	855.5	855.5	855.5	855.5	855.5
2.5°	856.7	856.7	854.4	856.7	857.9
5°	854.4	854.4	853.2	856.7	857.9
7.5°	849.6	850.8	850.8	855.5	857.9
10°	843.8	846.1	847.3	854.4	855.5
12.5°	836.7	839.1	842.6	850.8	852.0
15°	826.1	830.8	836.7	846.1	849.6
17.5°	815.5	820.2	827.3	840.2	843.8
20°	801.4	807.3	817.9	833.2	839.1
22.5°	787.3	792.0	804.9	823.8	829.6
25°	769.6	775.5	790.8	810.8	817.9
27.5°	749.6	757.9	774.3	795.5	802.6
30°	729.6	736.7	754.3	777.9	784.9
32.5°	706.1	713.1	733.1	755.5	763.7
35°	682.5	689.6	708.4	730.8	737.9
37.5°	656.7	661.4	681.4	700.2	707.3
40°	629.6	633.1	650.8	669.6	674.3
42.5°	600.2	602.5	619.0	635.5	636.6
45°	568.4	569.6	586.0	597.8	599.0
47.5°	536.6	535.4	549.6	557.8	559.0
50°	501.3	501.3	510.7	515.4	515.4
52.5°	466.0	463.7	468.4	471.9	468.4
55°	428.4	424.8	427.2	427.2	424.8
57.5°	390.7	383.6	384.8	382.5	376.6
60°	354.2	346.0	342.4	334.2	329.5
62.5°	316.6	307.1	300.1	290.7	289.5
65°	278.9	267.1	258.9	248.3	244.8
67.5°	242.4	231.8	220.1	208.3	201.2
70°	205.9	194.2	183.6	168.3	160.0
72.5°	173.0	162.4	149.5	131.8	125.9
75°	140.0	129.4	115.3	100.0	90.6
77.5°	108.3	100.0	84.7	71.8	70.6
80°	83.6	74.1	56.5	53.0	53.0
82.5°	54.1	48.2	40.0	37.7	37.7
85°	33.0	25.9	23.5	23.5	23.5
87.5°	12.9	11.8	11.8	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)