

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: P295681

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295681
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-L83050-W2A1-U-4500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2403.0 lumens
Efficiency: N/A
Efficacy: 96.1 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

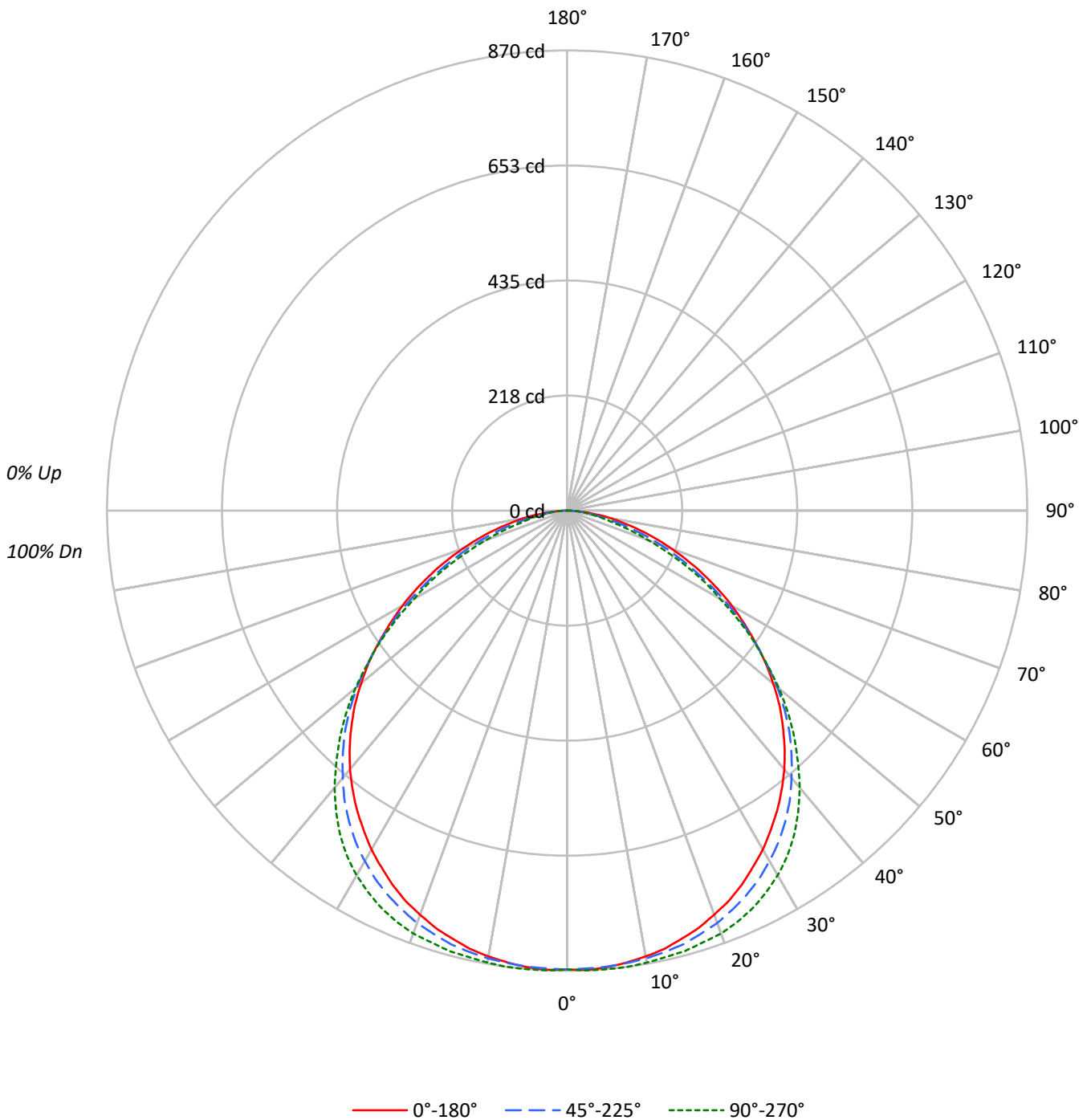
Input Watts (W): 25.017
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2335	2335	2335
5°	2341	2338	2351
10°	2339	2349	2371
15°	2335	2364	2401
20°	2328	2376	2437
25°	2318	2382	2463
30°	2300	2378	2474
35°	2274	2361	2459
40°	2243	2319	2403
45°	2194	2262	2312
50°	2129	2169	2189
55°	2038	2033	2022
60°	1934	1870	1799
65°	1801	1672	1581
70°	1644	1465	1277
75°	1476	1216	955
80°	1314	888	832
85°	1031	738	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	3.4
10°-20°	240.1	10.0
20°-30°	370.5	15.4
30°-40°	449.4	18.7
40°-50°	456.3	19.0
50°-60°	386.0	16.1
60°-70°	261.1	10.9
70°-80°	126.3	5.3
80°-90°	30.8	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°	693.2	28.8
0°-40°	1142.6	47.5
0°-60°	1984.8	82.6
0°-90°	2403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2403.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	867	867	865	869	870	82
15°	838	843	849	858	862	237
25°	781	787	802	822	830	360
35°	692	700	719	741	748	433
45°	577	578	594	606	608	445
55°	434	431	433	433	431	388
65°	283	271	263	252	248	280
75°	142	131	117	102	92	151
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°	867.8	867.8	867.8	867.8	867.8
2.5°	869.0	869.0	866.6	869.0	870.2
5°	866.6	866.6	865.4	869.0	870.2
7.5°	861.8	863.0	863.0	867.8	870.2
10°	855.9	858.3	859.5	866.6	867.8
12.5°	848.7	851.1	854.7	863.0	864.2
15°	838.0	842.7	848.7	858.3	861.8
17.5°	827.2	832.0	839.2	852.3	855.9
20°	812.9	818.9	829.6	845.1	851.1
22.5°	798.6	803.4	816.5	835.6	841.6
25°	780.7	786.6	802.2	822.5	829.6
27.5°	760.4	768.7	785.4	806.9	814.1
30°	740.1	747.2	765.2	789.0	796.2
32.5°	716.2	723.4	743.7	766.3	774.7
35°	692.3	699.5	718.6	741.3	748.4
37.5°	666.1	670.9	691.1	710.2	717.4
40°	638.6	642.2	660.1	679.2	684.0
42.5°	608.8	611.2	627.9	644.6	645.8
45°	576.6	577.7	594.5	606.4	607.6
47.5°	544.3	543.1	557.5	565.8	567.0
50°	508.5	508.5	518.1	522.8	522.8
52.5°	472.7	470.3	475.1	478.7	475.1
55°	434.5	430.9	433.3	433.3	430.9
57.5°	396.3	389.1	390.3	387.9	382.0
60°	359.3	350.9	347.4	339.0	334.2
62.5°	321.1	311.6	304.4	294.8	293.6
65°	282.9	271.0	262.6	251.9	248.3
67.5°	245.9	235.2	223.2	211.3	204.1
70°	208.9	197.0	186.2	170.7	162.3
72.5°	175.5	164.7	151.6	133.7	127.7
75°	142.0	131.3	117.0	101.5	91.9
77.5°	109.8	101.5	85.9	72.8	71.6
80°	84.8	75.2	57.3	53.7	53.7
82.5°	54.9	48.9	40.6	38.2	38.2
85°	33.4	26.3	23.9	23.9	23.9
87.5°	13.1	11.9	11.9	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)