

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: P295539

Luminaire Tested: **14RLN-LD5-26-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295539  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-085-1)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14RLN-LD5-26-UNV-L83050-W2A1-U-3500K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2672.0 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.01 / 1.18  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

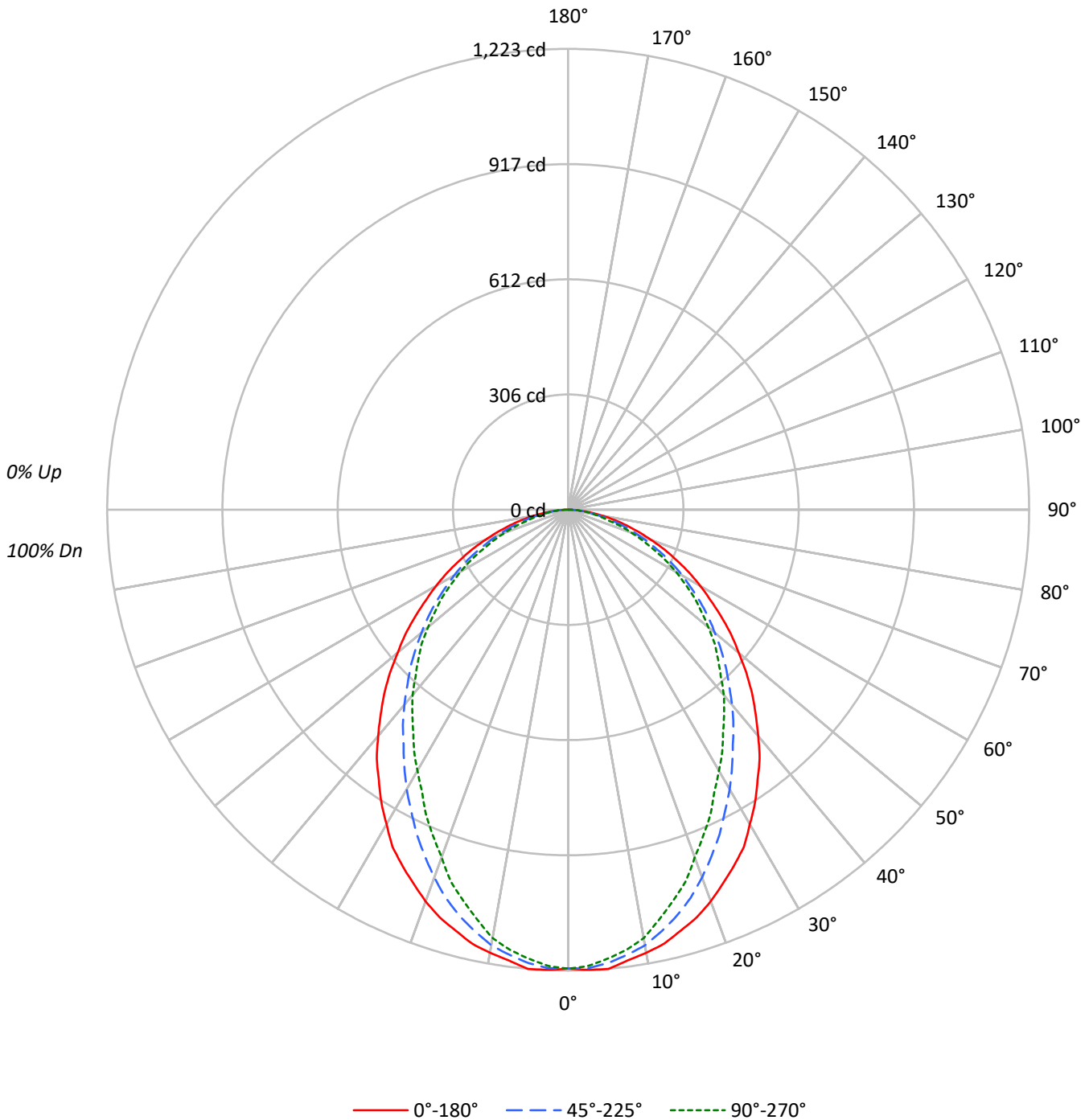
Input Watts (W): 23.808  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47					47			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33					33			
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28					28			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3277	3277	3277
5°	3305	3262	3232
10°	3263	3207	3155
15°	3220	3107	2993
20°	3168	2973	2812
25°	3093	2822	2651
30°	2995	2662	2486
35°	2877	2503	2354
40°	2755	2375	2256
45°	2624	2251	2139
50°	2471	2126	2032
55°	2330	2007	1922
60°	2181	1883	1780
65°	2019	1739	1596
70°	1838	1563	1412
75°	1654	1396	1150
80°	1416	1137	1085
85°	1149	1081	1081



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.0	4.3
10°-20°	313.0	11.7
20°-30°	439.2	16.4
30°-40°	487.2	18.2
40°-50°	467.7	17.5
50°-60°	392.0	14.7
60°-70°	275.1	10.3
70°-80°	143.7	5.4
80°-90°	40.2	1.5
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°	866.2	32.4
0°-40°	1353.4	50.6
0°-60°	2213.0	82.8
0°-90°	2672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2672.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1218	1218	1218	1218	1218	
5°	1223	1208	1208	1200	1196	116
15°	1156	1135	1115	1086	1074	326
25°	1042	1004	950	904	893	479
35°	876	827	762	725	717	548
45°	690	636	591	569	562	531
55°	497	459	428	414	410	444
65°	317	296	273	256	251	315
75°	159	147	134	118	111	169
85°	37	35	35	35	35	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1222.3	1215.5	1217.8	1217.8	1212.1
5°	1223.4	1207.6	1207.6	1199.7	1196.3
7.5°	1206.5	1194.1	1191.8	1181.7	1178.3
10°	1194.1	1181.7	1173.8	1160.2	1154.6
12.5°	1179.4	1160.2	1145.6	1123.0	1114.0
15°	1155.7	1135.4	1115.1	1085.7	1074.5
17.5°	1134.3	1110.6	1080.1	1047.4	1035.0
20°	1106.1	1077.8	1038.3	993.2	981.9
22.5°	1073.3	1040.6	994.3	945.8	936.8
25°	1041.7	1004.5	950.3	904.0	892.7
27.5°	1009.0	963.8	901.8	852.1	840.8
30°	963.8	917.6	856.6	808.1	800.2
32.5°	922.1	875.8	809.2	769.7	760.7
35°	875.8	827.3	761.8	724.6	716.7
37.5°	834.1	777.6	720.1	683.9	679.4
40°	784.4	733.6	676.0	649.0	642.2
42.5°	735.9	685.1	630.9	607.2	599.3
45°	689.6	636.5	591.4	568.8	562.1
47.5°	641.1	592.5	549.6	531.6	527.1
50°	590.3	547.4	507.9	491.0	485.3
52.5°	545.1	501.1	468.4	452.6	445.8
55°	496.6	459.4	427.8	414.2	409.7
57.5°	448.1	417.6	387.1	374.7	367.9
60°	405.2	374.7	349.9	335.2	330.7
62.5°	361.2	335.2	311.5	298.0	292.3
65°	317.1	295.7	273.1	256.2	250.6
67.5°	276.5	252.8	234.8	220.1	214.4
70°	233.6	216.7	198.6	185.1	179.5
72.5°	194.1	181.7	165.9	151.2	145.6
75°	159.1	146.7	134.3	118.5	110.6
77.5°	124.1	116.2	103.8	90.3	90.3
80°	91.4	86.9	73.4	71.1	70.0
82.5°	63.2	60.9	53.0	51.9	51.9
85°	37.2	35.0	35.0	35.0	35.0
87.5°	15.8	16.9	18.1	18.1	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)