

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: P295552

Luminaire Tested: **14RLN-LD5-35-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295552  
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-LD5-35-UNV-L83050-W2A1-U-5000K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3779.0 lumens  
Efficiency: N/A  
Efficacy: 107.2 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

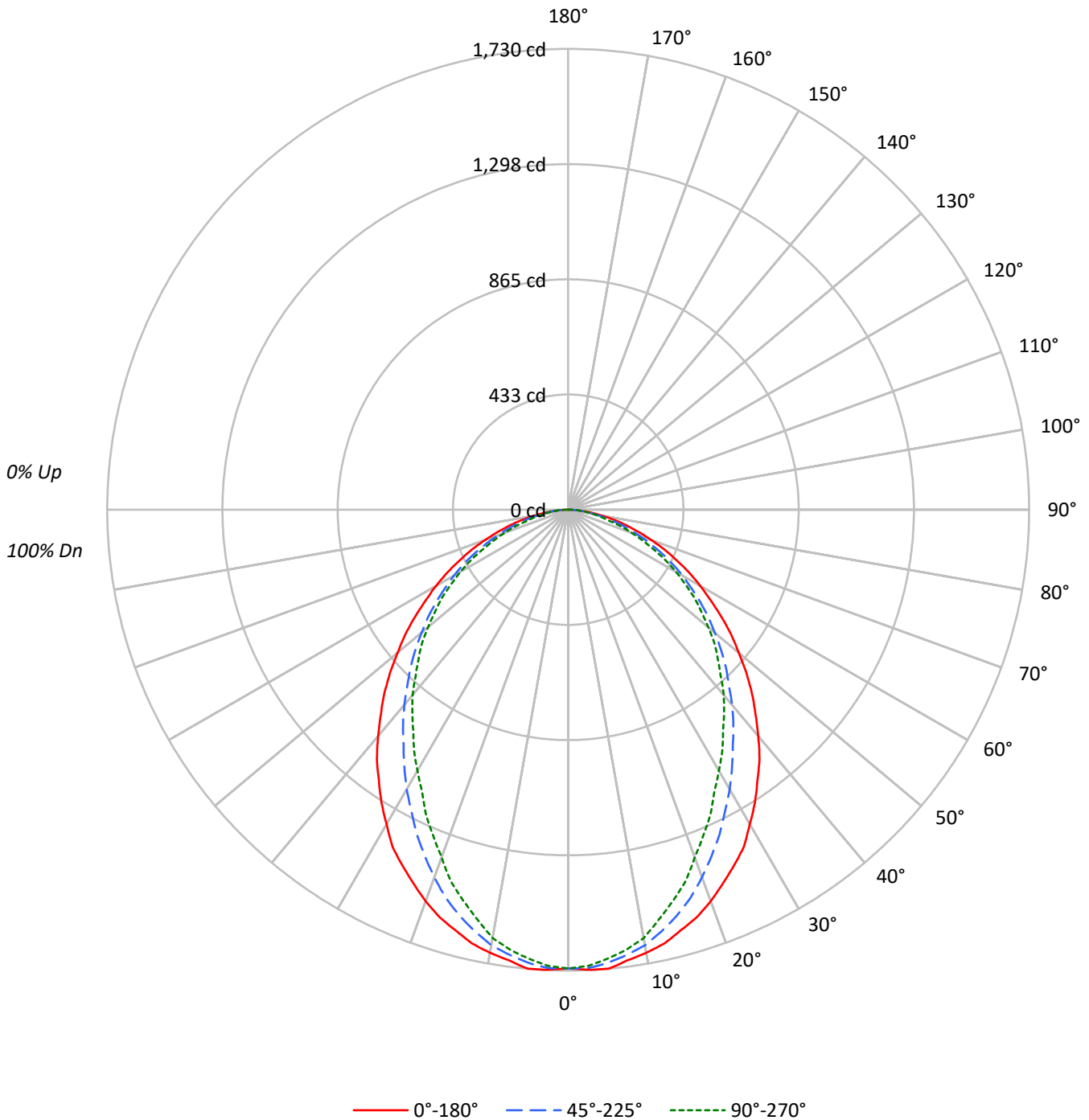
Input Watts (W): 35.247  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74					72				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56					54				
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49					47				
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43					41				
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39					37				
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35					33				
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32					30				
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29					28				

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

	0°	45°	90°
0°	4635	4635	4635
5°	4674	4614	4571
10°	4615	4536	4462
15°	4554	4394	4233
20°	4480	4205	3977
25°	4374	3991	3749
30°	4236	3764	3517
35°	4069	3539	3330
40°	3897	3359	3190
45°	3712	3183	3025
50°	3495	3007	2874
55°	3295	2838	2718
60°	3084	2663	2517
65°	2856	2460	2257
70°	2600	2210	1997
75°	2340	1974	1626
80°	2004	1609	1534
85°	1627	1528	1528



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.3	4.3
10°-20°	442.6	11.7
20°-30°	621.2	16.4
30°-40°	689.0	18.2
40°-50°	661.4	17.5
50°-60°	554.3	14.7
60°-70°	389.1	10.3
70°-80°	203.2	5.4
80°-90°	56.9	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°	1225.1	32.4
0°-40°	1914.1	50.6
0°-60°	3129.8	82.8
0°-90°	3779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3779.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1722	1722	1722	1722	1722	
5°	1730	1708	1708	1697	1692	163
15°	1634	1606	1577	1536	1520	461
25°	1473	1421	1344	1279	1263	678
35°	1239	1170	1077	1025	1014	776
45°	975	900	836	804	795	751
55°	702	650	605	586	579	628
65°	448	418	386	362	354	446
75°	225	208	190	168	156	239
85°	53	50	50	50	50	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1722.3	1722.3	1722.3	1722.3	1722.3
2.5°	1728.7	1719.1	1722.3	1722.3	1714.3
5°	1730.3	1708.0	1708.0	1696.8	1692.0
7.5°	1706.4	1688.8	1685.6	1671.2	1666.4
10°	1688.8	1671.2	1660.1	1640.9	1632.9
12.5°	1668.0	1640.9	1620.2	1588.2	1575.5
15°	1634.5	1605.8	1577.1	1535.6	1519.6
17.5°	1604.2	1570.7	1527.6	1481.3	1463.7
20°	1564.3	1524.4	1468.5	1404.7	1388.7
22.5°	1518.0	1471.7	1406.3	1337.6	1324.9
25°	1473.3	1420.6	1344.0	1278.6	1262.6
27.5°	1427.0	1363.2	1275.4	1205.1	1189.2
30°	1363.2	1297.7	1211.5	1142.9	1131.7
32.5°	1304.1	1238.7	1144.5	1088.6	1075.8
35°	1238.7	1170.0	1077.4	1024.8	1013.6
37.5°	1179.6	1099.8	1018.4	967.3	960.9
40°	1109.4	1037.5	956.1	917.8	908.2
42.5°	1040.7	968.9	892.3	858.8	847.6
45°	975.3	900.3	836.4	804.5	794.9
47.5°	906.7	838.0	777.4	751.8	745.4
50°	834.8	774.2	718.3	694.4	686.4
52.5°	771.0	708.7	662.4	640.1	630.5
55°	702.3	649.7	605.0	585.8	579.4
57.5°	633.7	590.6	547.5	529.9	520.4
60°	573.0	529.9	494.8	474.1	467.7
62.5°	510.8	474.1	440.6	421.4	413.4
65°	448.5	418.2	386.3	362.3	354.4
67.5°	391.1	357.6	332.0	311.3	303.3
70°	330.4	306.5	280.9	261.8	253.8
72.5°	274.5	257.0	234.6	213.9	205.9
75°	225.1	207.5	189.9	167.6	156.4
77.5°	175.6	164.4	146.9	127.7	127.7
80°	129.3	122.9	103.8	100.6	99.0
82.5°	89.4	86.2	75.0	73.4	73.4
85°	52.7	49.5	49.5	49.5	49.5
87.5°	22.3	23.9	25.5	25.5	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)