

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: P295655

Luminaire Tested: **14RLN-LD5-35-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295655  
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-L92765-W2A1-U-2700K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2794.0 lumens  
Efficiency: N/A  
Efficacy: 83.5 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

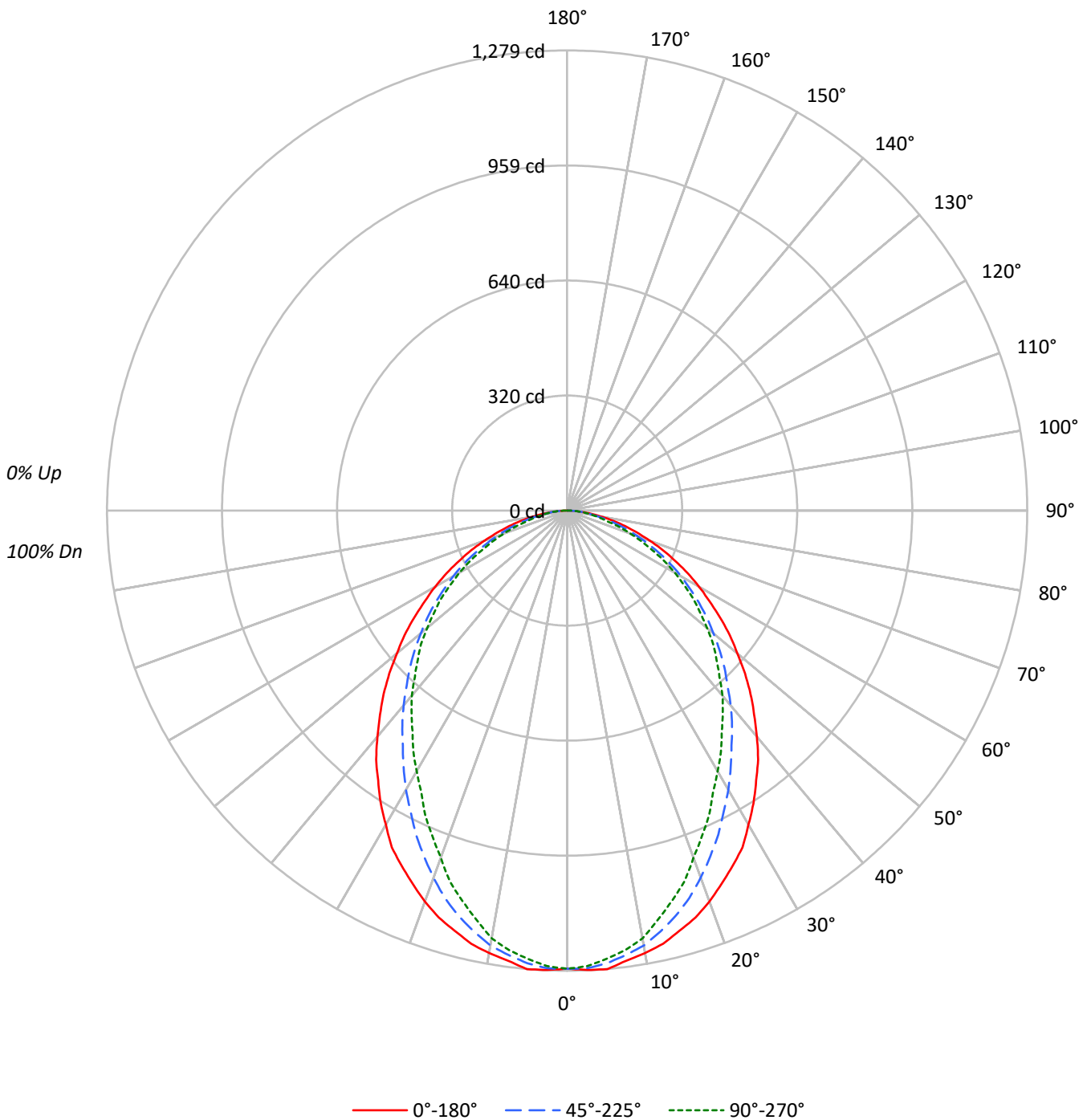
Input Watts (W): 33.48  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3427	3427	3427
5°	3456	3411	3379
10°	3412	3354	3299
15°	3367	3248	3130
20°	3312	3109	2940
25°	3234	2950	2772
30°	3132	2783	2600
35°	3008	2617	2462
40°	2881	2483	2359
45°	2744	2353	2237
50°	2584	2223	2125
55°	2436	2099	2010
60°	2280	1969	1861
65°	2111	1819	1668
70°	1922	1634	1476
75°	1730	1460	1203
80°	1481	1189	1134
85°	1201	1130	1130



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.2	4.3
10°-20°	327.2	11.7
20°-30°	459.3	16.4
30°-40°	509.4	18.2
40°-50°	489.0	17.5
50°-60°	409.9	14.7
60°-70°	287.7	10.3
70°-80°	150.2	5.4
80°-90°	42.1	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°	905.7	32.4
0°-40°	1415.2	50.6
0°-60°	2314.0	82.8
0°-90°	2794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2794.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1279	1263	1263	1254	1251	121
15°	1208	1187	1166	1135	1124	341
25°	1089	1050	994	945	934	501
35°	916	865	797	758	749	573
45°	721	666	618	595	588	555
55°	519	480	447	433	428	464
65°	332	309	286	268	262	330
75°	166	153	140	124	116	176
85°	39	37	37	37	37	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1273.4	1273.4	1273.4	1273.4	1273.4
2.5°	1278.1	1271.0	1273.4	1273.4	1267.5
5°	1279.3	1262.8	1262.8	1254.5	1251.0
7.5°	1261.6	1248.6	1246.2	1235.6	1232.1
10°	1248.6	1235.6	1227.4	1213.2	1207.3
12.5°	1233.3	1213.2	1197.9	1174.3	1164.8
15°	1208.5	1187.2	1166.0	1135.3	1123.5
17.5°	1186.1	1161.3	1129.4	1095.2	1082.2
20°	1156.6	1127.1	1085.7	1038.5	1026.7
22.5°	1122.3	1088.1	1039.7	989.0	979.5
25°	1089.3	1050.3	993.7	945.3	933.5
27.5°	1055.1	1007.9	942.9	891.0	879.2
30°	1007.9	959.5	895.7	845.0	836.7
32.5°	964.2	915.8	846.2	804.9	795.4
35°	915.8	865.1	796.6	757.7	749.4
37.5°	872.1	813.1	752.9	715.2	710.5
40°	820.2	767.1	706.9	678.6	671.5
42.5°	769.5	716.4	659.7	634.9	626.7
45°	721.1	665.6	618.4	594.8	587.7
47.5°	670.3	619.6	574.7	555.9	551.1
50°	617.2	572.4	531.1	513.4	507.5
52.5°	570.0	524.0	489.8	473.2	466.2
55°	519.3	480.3	447.3	433.1	428.4
57.5°	468.5	436.7	404.8	391.8	384.7
60°	423.7	391.8	365.8	350.5	345.8
62.5°	377.7	350.5	325.7	311.6	305.7
65°	331.6	309.2	285.6	267.9	262.0
67.5°	289.1	264.4	245.5	230.1	224.2
70°	244.3	226.6	207.7	193.5	187.6
72.5°	203.0	190.0	173.5	158.1	152.2
75°	166.4	153.4	140.4	123.9	115.7
77.5°	129.8	121.6	108.6	94.4	94.4
80°	95.6	90.9	76.7	74.4	73.2
82.5°	66.1	63.7	55.5	54.3	54.3
85°	38.9	36.6	36.6	36.6	36.6
87.5°	16.5	17.7	18.9	18.9	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)