

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: P295664

Luminaire Tested: **14RLN-LD5-40-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295664  
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-LD5-40-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: 3179.0 lumens  
Efficiency: N/A  
Efficacy: 80.8 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

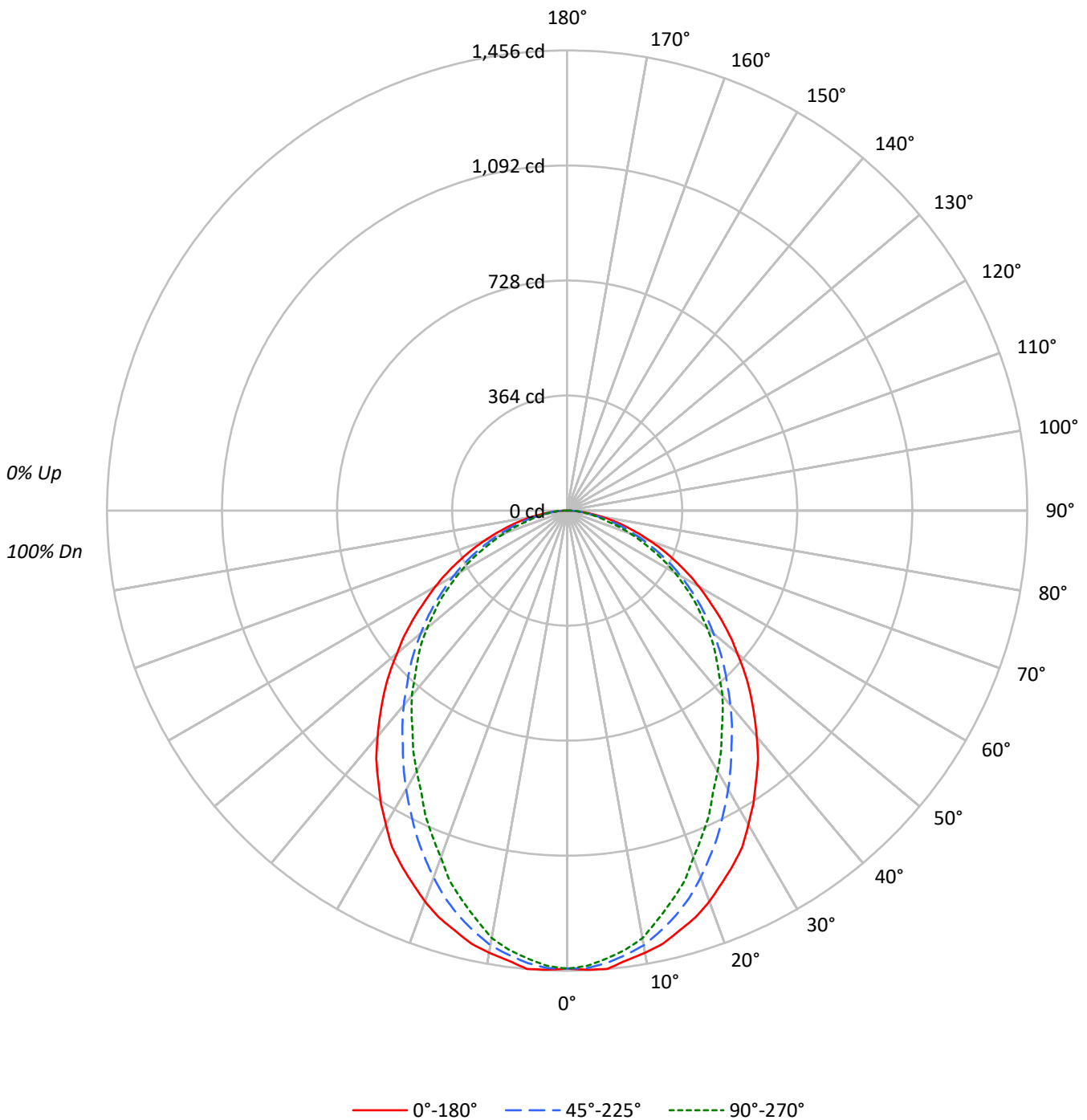
Input Watts (W): 39.339  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3899	3899	3899
5°	3932	3881	3845
10°	3882	3816	3754
15°	3831	3696	3561
20°	3768	3538	3345
25°	3680	3357	3154
30°	3563	3167	2958
35°	3423	2978	2801
40°	3278	2825	2684
45°	3122	2678	2545
50°	2940	2530	2417
55°	2772	2388	2287
60°	2595	2241	2117
65°	2402	2069	1898
70°	2187	1859	1680
75°	1968	1661	1368
80°	1686	1353	1291
85°	1368	1284	1284



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.7	4.3
10°-20°	372.3	11.7
20°-30°	522.6	16.4
30°-40°	579.6	18.2
40°-50°	556.4	17.5
50°-60°	466.3	14.7
60°-70°	327.3	10.3
70°-80°	170.9	5.4
80°-90°	47.8	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°	1030.6	32.4
0°-40°	1610.2	50.7
0°-60°	2632.9	82.8
0°-90°	3179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3179.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1449	1449	1449	1449	1449	
5°	1456	1437	1437	1427	1423	137
15°	1375	1351	1327	1292	1278	388
25°	1239	1195	1131	1076	1062	570
35°	1042	984	906	862	853	653
45°	820	757	704	677	669	632
55°	591	546	509	493	487	528
65°	377	352	325	305	298	375
75°	189	175	160	141	132	201
85°	44	42	42	42	42	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1448.9	1448.9	1448.9	1448.9	1448.9
2.5°	1454.2	1446.2	1448.9	1448.9	1442.1
5°	1455.6	1436.8	1436.8	1427.4	1423.3
7.5°	1435.4	1420.7	1418.0	1405.9	1401.9
10°	1420.7	1405.9	1396.5	1380.4	1373.7
12.5°	1403.2	1380.4	1362.9	1336.1	1325.3
15°	1375.0	1350.8	1326.7	1291.8	1278.3
17.5°	1349.5	1321.3	1285.0	1246.1	1231.3
20°	1315.9	1282.4	1235.4	1181.6	1168.2
22.5°	1277.0	1238.0	1183.0	1125.3	1114.5
25°	1239.4	1195.1	1130.6	1075.6	1062.1
27.5°	1200.4	1146.7	1072.9	1013.8	1000.4
30°	1146.7	1091.7	1019.2	961.4	952.0
32.5°	1097.1	1042.0	962.8	915.8	905.0
35°	1042.0	984.3	906.4	862.1	852.7
37.5°	992.3	925.2	856.7	813.7	808.4
40°	933.2	872.8	804.3	772.1	764.0
42.5°	875.5	815.1	750.6	722.4	713.0
45°	820.4	757.3	703.6	676.8	668.7
47.5°	762.7	705.0	653.9	632.4	627.1
50°	702.3	651.2	604.3	584.1	577.4
52.5°	648.6	596.2	557.3	538.5	530.4
55°	590.8	546.5	508.9	492.8	487.4
57.5°	533.1	496.8	460.6	445.8	437.7
60°	482.1	445.8	416.3	398.8	393.4
62.5°	429.7	398.8	370.6	354.5	347.8
65°	377.3	351.8	325.0	304.8	298.1
67.5°	329.0	300.8	279.3	261.8	255.1
70°	278.0	257.8	236.3	220.2	213.5
72.5°	231.0	216.2	197.4	179.9	173.2
75°	189.3	174.6	159.8	141.0	131.6
77.5°	147.7	138.3	123.5	107.4	107.4
80°	108.8	103.4	87.3	84.6	83.3
82.5°	75.2	72.5	63.1	61.8	61.8
85°	44.3	41.6	41.6	41.6	41.6
87.5°	18.8	20.1	21.5	21.5	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)