

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: P295570

Luminaire Tested: **14RLN-LD5-26-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295570  
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-L82765-W2A1-U-4000K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2667.0 lumens  
Efficiency: N/A  
Efficacy: 110.7 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

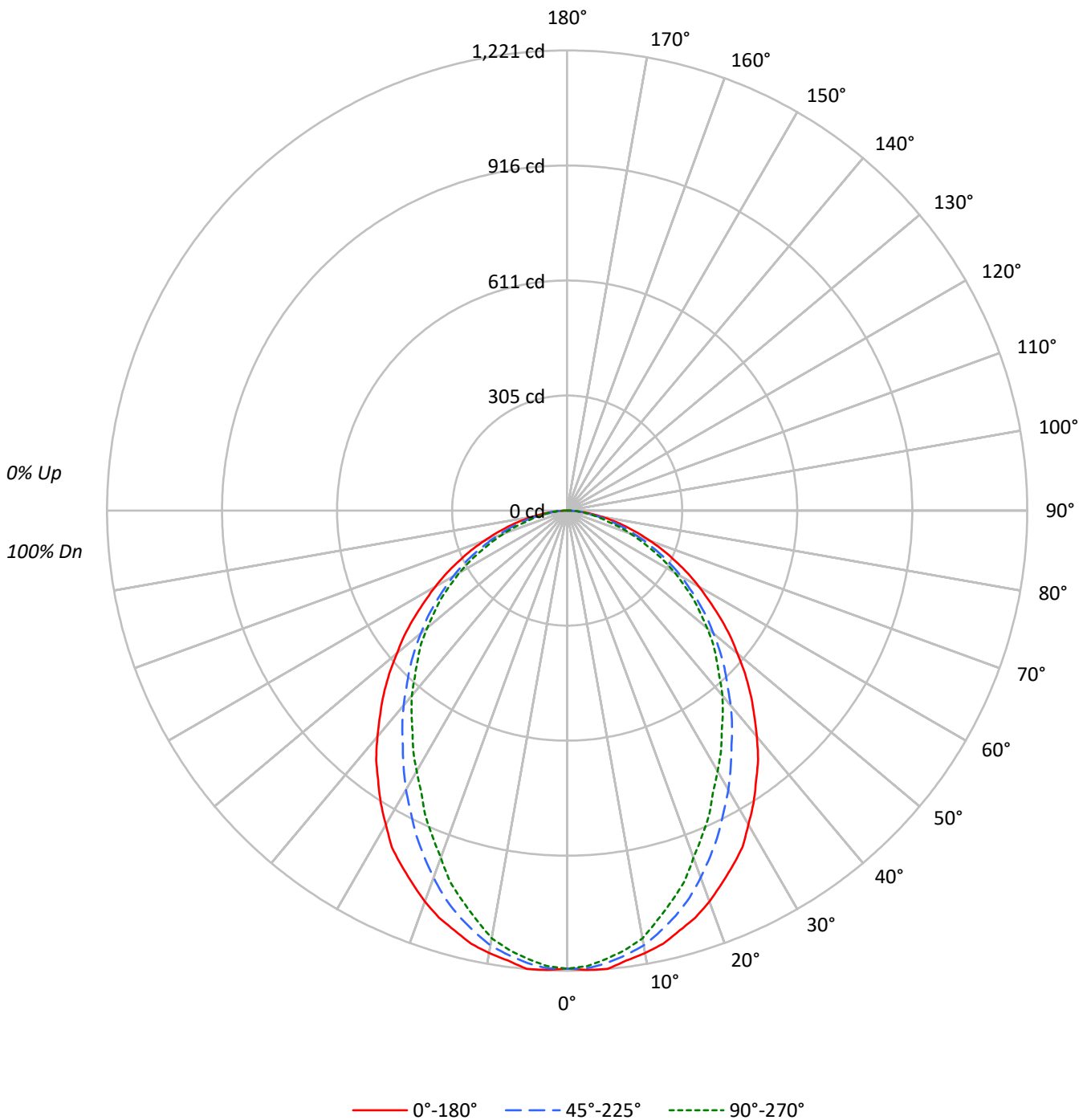
Input Watts (W): 24.087  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3271	3271	3271
5°	3299	3256	3226
10°	3257	3201	3149
15°	3214	3101	2988
20°	3162	2968	2807
25°	3087	2816	2646
30°	2989	2657	2482
35°	2872	2498	2350
40°	2750	2370	2252
45°	2619	2246	2135
50°	2467	2122	2028
55°	2326	2003	1918
60°	2176	1879	1777
65°	2016	1736	1592
70°	1835	1560	1409
75°	1651	1394	1148
80°	1413	1134	1082
85°	1149	1078	1078



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.8	4.3
10°-20°	312.4	11.7
20°-30°	438.4	16.4
30°-40°	486.3	18.2
40°-50°	466.8	17.5
50°-60°	391.2	14.7
60°-70°	274.6	10.3
70°-80°	143.4	5.4
80°-90°	40.1	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°	864.6	32.4
0°-40°	1350.8	50.7
0°-60°	2208.8	82.8
0°-90°	2667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2667.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1221	1205	1205	1198	1194	115
15°	1154	1133	1113	1084	1072	325
25°	1040	1003	948	902	891	479
35°	874	826	760	723	715	547
45°	688	635	590	568	561	530
55°	496	458	427	413	409	443
65°	317	295	273	256	250	315
75°	159	146	134	118	110	168
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°	1215.5	1215.5	1215.5	1215.5	1215.5
2.5°	1220.0	1213.3	1215.5	1215.5	1209.9
5°	1221.1	1205.4	1205.4	1197.5	1194.1
7.5°	1204.2	1191.9	1189.6	1179.5	1176.1
10°	1191.9	1179.5	1171.6	1158.1	1152.4
12.5°	1177.2	1158.1	1143.4	1120.9	1111.9
15°	1153.6	1133.3	1113.0	1083.7	1072.4
17.5°	1132.1	1108.5	1078.1	1045.4	1033.0
20°	1104.0	1075.8	1036.4	991.3	980.1
22.5°	1071.3	1038.6	992.5	944.0	935.0
25°	1039.8	1002.6	948.5	902.3	891.1
27.5°	1007.1	962.0	900.1	850.5	839.3
30°	962.0	915.9	855.0	806.6	798.7
32.5°	920.4	874.2	807.7	768.3	759.3
35°	874.2	825.7	760.4	723.2	715.3
37.5°	832.5	776.2	718.7	682.7	678.2
40°	782.9	732.2	674.8	647.7	641.0
42.5°	734.5	683.8	629.7	606.1	598.2
45°	688.3	635.4	590.3	567.8	561.0
47.5°	639.9	591.4	548.6	530.6	526.1
50°	589.2	546.4	506.9	490.0	484.4
52.5°	544.1	500.2	467.5	451.7	445.0
55°	495.7	458.5	426.9	413.4	408.9
57.5°	447.2	416.8	386.4	374.0	367.2
60°	404.4	374.0	349.2	334.6	330.1
62.5°	360.5	334.6	310.9	297.4	291.8
65°	316.6	295.1	272.6	255.7	250.1
67.5°	276.0	252.3	234.3	219.7	214.0
70°	233.2	216.3	198.3	184.7	179.1
72.5°	193.8	181.4	165.6	151.0	145.3
75°	158.8	146.4	134.1	118.3	110.4
77.5°	123.9	116.0	103.6	90.1	90.1
80°	91.2	86.7	73.2	71.0	69.8
82.5°	63.1	60.8	52.9	51.8	51.8
85°	37.2	34.9	34.9	34.9	34.9
87.5°	15.8	16.9	18.0	18.0	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)