

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: P295714

Luminaire Tested: **14RLN-LD5-26-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295714  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14RLN-LD5-26-RDP-UNV-L82765-W2A1-U-5700K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2363.0 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

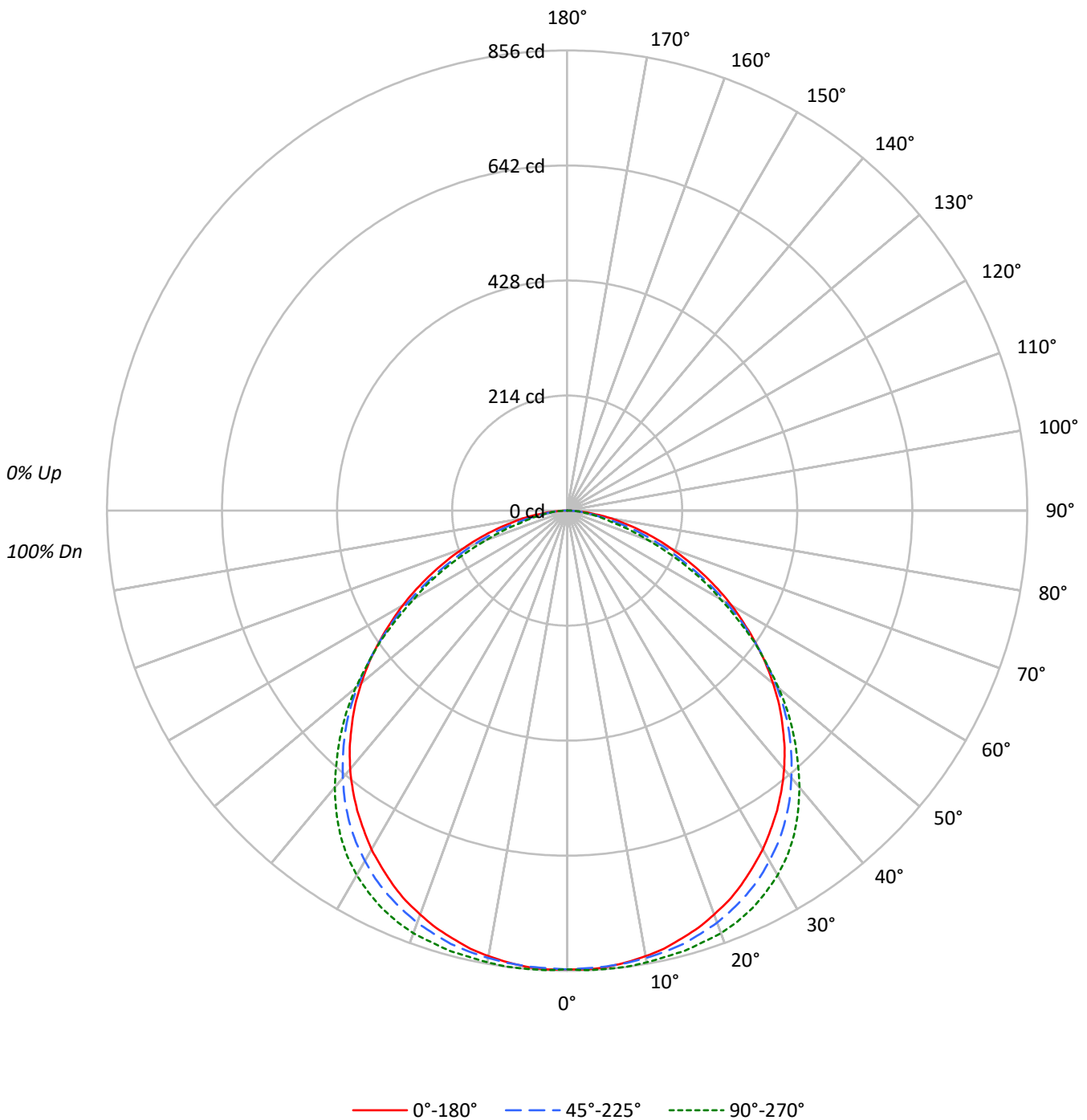
Input Watts (W): 24.459  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

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

	0°	45°	90°
0°	2296	2296	2296
5°	2302	2299	2311
10°	2300	2309	2332
15°	2296	2325	2361
20°	2289	2336	2397
25°	2279	2342	2422
30°	2261	2338	2433
35°	2236	2321	2418
40°	2206	2280	2363
45°	2158	2225	2274
50°	2093	2133	2152
55°	2005	1999	1988
60°	1901	1838	1769
65°	1771	1644	1555
70°	1616	1441	1256
75°	1452	1196	940
80°	1291	872	818
85°	1016	726	726



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.2	3.4
10°-20°	236.1	10.0
20°-30°	364.4	15.4
30°-40°	441.9	18.7
40°-50°	448.7	19.0
50°-60°	379.5	16.1
60°-70°	256.8	10.9
70°-80°	124.2	5.3
80°-90°	30.3	1.3
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°	681.7	28.8
0°-40°	1123.6	47.5
0°-60°	1951.8	82.6
0°-90°	2363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2363.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	853	853	853	853	853	
5°	852	852	851	854	856	81
15°	824	829	835	844	848	233
25°	768	774	789	809	816	354
35°	681	688	707	729	736	426
45°	567	568	585	596	598	437
55°	427	424	426	426	424	382
65°	278	266	258	248	244	276
75°	140	129	115	100	90	149
85°	33	26	24	24	24	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	853.4	853.4	853.4	853.4	853.4
2.5°	854.5	854.5	852.2	854.5	855.7
5°	852.2	852.2	851.0	854.5	855.7
7.5°	847.5	848.7	848.7	853.4	855.7
10°	841.6	844.0	845.1	852.2	853.4
12.5°	834.6	836.9	840.5	848.7	849.8
15°	824.0	828.7	834.6	844.0	847.5
17.5°	813.5	818.2	825.2	838.1	841.6
20°	799.4	805.2	815.8	831.1	836.9
22.5°	785.3	790.0	802.9	821.7	827.5
25°	767.7	773.5	788.8	808.8	815.8
27.5°	747.7	755.9	772.4	793.5	800.5
30°	727.8	734.8	752.4	775.9	782.9
32.5°	704.3	711.3	731.3	753.6	761.8
35°	680.8	687.9	706.6	728.9	736.0
37.5°	655.0	659.7	679.6	698.4	705.5
40°	628.0	631.5	649.1	667.9	672.6
42.5°	598.6	601.0	617.4	633.9	635.0
45°	567.0	568.1	584.6	596.3	597.5
47.5°	535.3	534.1	548.2	556.4	557.6
50°	500.0	500.0	509.4	514.1	514.1
52.5°	464.8	462.5	467.2	470.7	467.2
55°	427.3	423.7	426.1	426.1	423.7
57.5°	389.7	382.7	383.8	381.5	375.6
60°	353.3	345.1	341.6	333.4	328.7
62.5°	315.8	306.4	299.3	289.9	288.8
65°	278.2	266.5	258.2	247.7	244.2
67.5°	241.8	231.2	219.5	207.8	200.7
70°	205.4	193.7	183.1	167.9	159.6
72.5°	172.6	162.0	149.1	131.5	125.6
75°	139.7	129.1	115.0	99.8	90.4
77.5°	108.0	99.8	84.5	71.6	70.4
80°	83.3	74.0	56.3	52.8	52.8
82.5°	54.0	48.1	39.9	37.6	37.6
85°	32.9	25.8	23.5	23.5	23.5
87.5°	12.9	11.7	11.7	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)