

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: P295710

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295710  
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-4000K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2263.0 lumens  
Efficiency: N/A  
Efficacy: 94.0 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

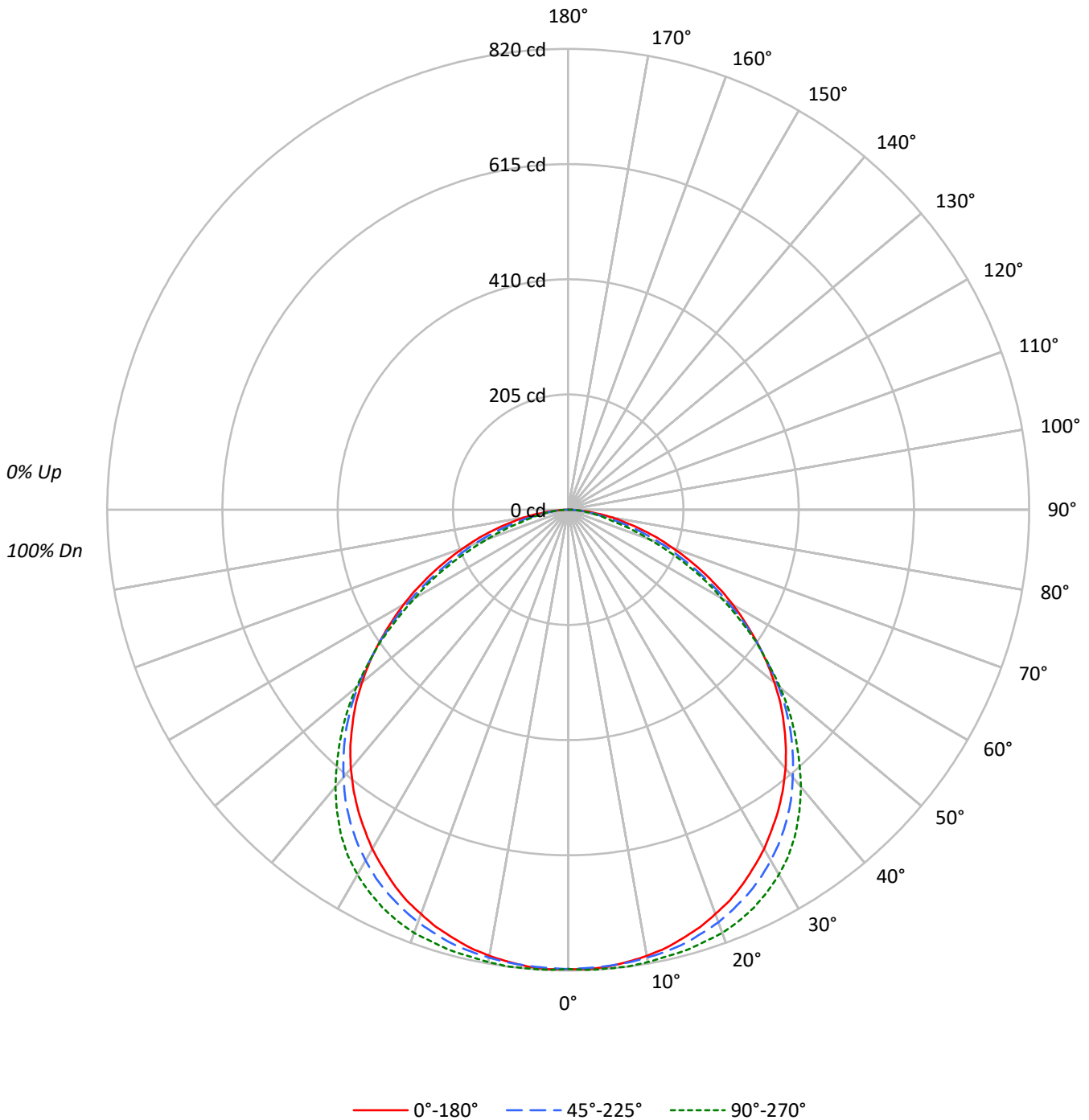
Input Watts (W): 24.087  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	2199	2199	2199
5°	2204	2202	2214
10°	2202	2212	2233
15°	2198	2227	2261
20°	2192	2237	2295
25°	2183	2243	2320
30°	2166	2239	2330
35°	2142	2223	2315
40°	2113	2184	2263
45°	2066	2130	2178
50°	2005	2043	2061
55°	1920	1915	1904
60°	1821	1760	1694
65°	1696	1575	1489
70°	1548	1380	1203
75°	1391	1146	900
80°	1237	837	784
85°	973	695	695



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.8	3.4
10°-20°	226.1	10.0
20°-30°	348.9	15.4
30°-40°	423.2	18.7
40°-50°	429.7	19.0
50°-60°	363.5	16.1
60°-70°	245.9	10.9
70°-80°	118.9	5.3
80°-90°	29.0	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°	652.8	28.8
0°-40°	1076.0	47.5
0°-60°	1869.2	82.6
0°-90°	2263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2263.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	816	816	815	818	820	78
15°	789	794	799	808	812	223
25°	735	741	755	774	781	339
35°	652	659	677	698	705	408
45°	543	544	560	571	572	419
55°	409	406	408	408	406	366
65°	266	255	247	237	234	264
75°	134	124	110	96	87	143
85°	32	25	22	22	22	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	817.3	817.3	817.3	817.3	817.3
2.5°	818.4	818.4	816.1	818.4	819.5
5°	816.1	816.1	815.0	818.4	819.5
7.5°	811.6	812.8	812.8	817.3	819.5
10°	806.0	808.3	809.4	816.1	817.3
12.5°	799.3	801.5	804.9	812.8	813.9
15°	789.1	793.6	799.3	808.3	811.6
17.5°	779.0	783.5	790.3	802.6	806.0
20°	765.5	771.2	781.3	795.9	801.5
22.5°	752.1	756.5	768.9	786.9	792.5
25°	735.2	740.8	755.4	774.5	781.3
27.5°	716.1	723.9	739.7	759.9	766.7
30°	697.0	703.7	720.6	743.1	749.8
32.5°	674.5	681.2	700.3	721.7	729.6
35°	652.0	658.7	676.7	698.1	704.8
37.5°	627.3	631.8	650.9	668.9	675.6
40°	601.4	604.8	621.7	639.6	644.1
42.5°	573.3	575.6	591.3	607.0	608.2
45°	543.0	544.1	559.8	571.1	572.2
47.5°	512.6	511.5	525.0	532.8	534.0
50°	478.9	478.9	487.9	492.4	492.4
52.5°	445.2	442.9	447.4	450.8	447.4
55°	409.2	405.8	408.1	408.1	405.8
57.5°	373.2	366.5	367.6	365.3	359.7
60°	338.4	330.5	327.1	319.3	314.8
62.5°	302.4	293.4	286.7	277.7	276.5
65°	266.4	255.2	247.3	237.2	233.8
67.5°	231.6	221.5	210.2	199.0	192.2
70°	196.7	185.5	175.4	160.8	152.9
72.5°	165.2	155.1	142.8	125.9	120.3
75°	133.8	123.7	110.2	95.6	86.6
77.5°	103.4	95.6	80.9	68.6	67.4
80°	79.8	70.8	54.0	50.6	50.6
82.5°	51.7	46.1	38.2	36.0	36.0
85°	31.5	24.7	22.5	22.5	22.5
87.5°	12.4	11.2	11.2	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)