

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: P296292

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296292  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24RLN-LD5-36-RDP-UNV-L92765-W2A1-U-2700K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2387.0 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

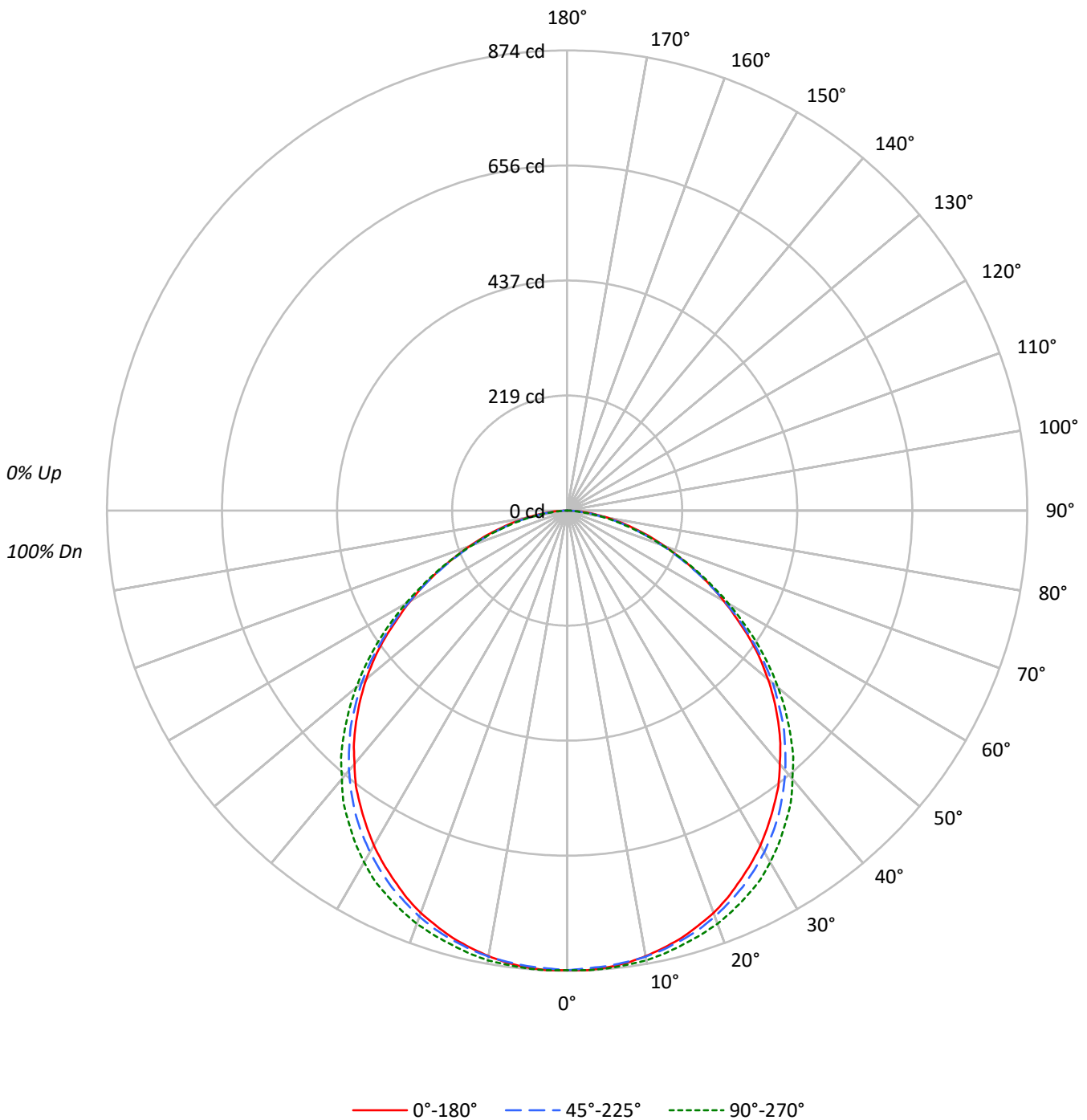
Input Watts (W): 25.11  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	1174	1174	1174
5°	1177	1173	1179
10°	1174	1175	1185
15°	1170	1176	1188
20°	1164	1175	1195
25°	1152	1171	1199
30°	1141	1164	1199
35°	1124	1153	1188
40°	1104	1132	1169
45°	1079	1106	1141
50°	1042	1067	1096
55°	992	1005	1034
60°	926	931	955
65°	850	845	865
70°	773	752	755
75°	687	650	645
80°	597	533	519
85°	489	377	293



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.8	3.5
10°-20°	238.7	10.0
20°-30°	364.3	15.3
30°-40°	439.2	18.4
40°-50°	447.9	18.8
50°-60°	383.3	16.1
60°-70°	264.0	11.1
70°-80°	135.4	5.7
80°-90°	31.5	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°	685.8	28.7
0°-40°	1124.9	47.1
0°-60°	1956.1	81.9
0°-90°	2387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2387.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	871	869	868	871	873	83
15°	840	839	844	850	853	237
25°	776	779	789	802	808	358
35°	685	687	702	717	724	428
45°	567	568	581	596	600	437
55°	423	420	428	437	441	377
65°	267	261	265	267	272	265
75°	132	127	125	125	124	143
85°	32	28	24	22	19	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	872.9	872.9	872.9	872.9	872.9
2.5°	873.8	872.0	870.2	872.0	873.8
5°	871.1	869.3	868.4	871.1	872.9
7.5°	866.6	864.8	864.8	868.4	870.2
10°	859.4	858.4	860.3	863.9	867.5
12.5°	850.3	850.3	853.0	857.5	861.2
15°	840.3	839.4	844.0	850.3	853.0
17.5°	826.8	827.7	834.0	841.2	844.9
20°	813.2	814.1	820.4	830.4	834.9
22.5°	796.0	797.8	805.0	817.7	822.2
25°	776.0	778.8	788.7	802.3	807.7
27.5°	756.1	758.8	769.7	785.1	792.3
30°	734.4	738.0	748.9	765.2	771.5
32.5°	709.9	712.7	726.2	742.5	748.9
35°	684.6	687.3	701.8	717.2	723.5
37.5°	659.2	659.2	673.7	691.8	698.2
40°	628.4	629.3	644.7	661.9	665.6
42.5°	599.5	599.5	613.0	629.3	635.7
45°	566.9	567.8	581.4	595.8	599.5
47.5°	533.4	533.4	545.1	558.7	562.3
50°	498.0	496.2	509.8	520.7	523.4
52.5°	461.8	459.1	470.0	479.0	482.6
55°	422.9	420.2	428.3	437.4	441.0
57.5°	382.1	378.5	387.6	395.7	397.5
60°	344.1	338.7	345.9	350.4	355.0
62.5°	306.1	299.7	305.2	307.9	311.5
65°	267.1	260.8	265.3	267.1	271.7
67.5°	230.0	225.5	226.4	229.1	230.9
70°	196.5	191.1	191.1	191.1	192.0
72.5°	165.7	157.6	156.7	157.6	157.6
75°	132.2	126.8	125.0	125.0	124.1
77.5°	105.9	98.7	97.8	96.0	94.2
80°	77.0	70.6	68.8	67.9	67.0
82.5°	53.4	48.0	46.2	44.4	41.7
85°	31.7	28.1	24.4	21.7	19.0
87.5°	11.8	10.9	9.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)