

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: P296238

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296238  
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-L93050-W2A1-U-3000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2370.0 lumens  
Efficiency: N/A  
Efficacy: 92.0 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

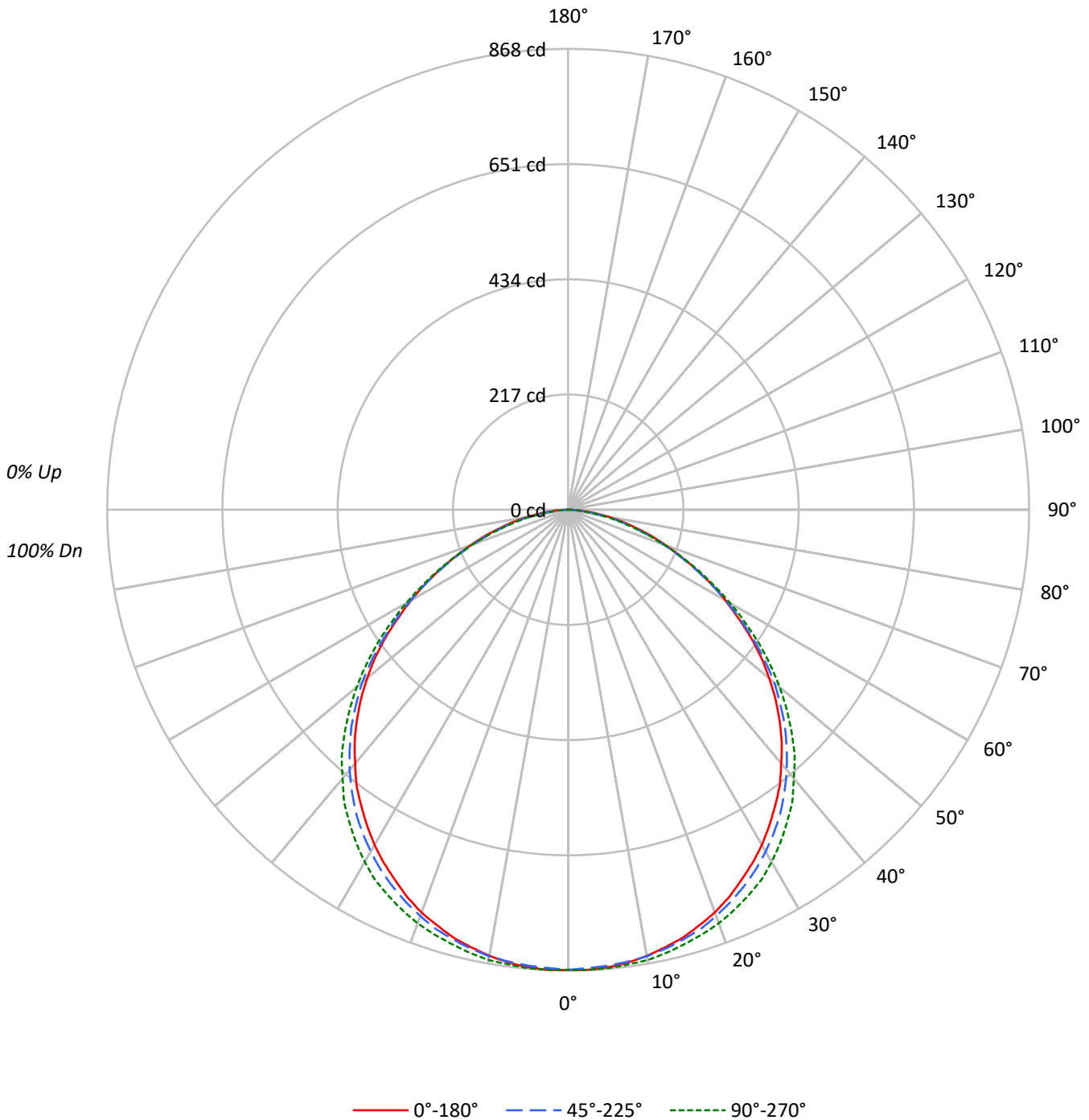
Input Watts (W): 25.761  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	1166	1166	1166
5°	1168	1165	1171
10°	1166	1167	1177
15°	1162	1167	1180
20°	1156	1166	1187
25°	1144	1163	1191
30°	1133	1155	1190
35°	1116	1145	1180
40°	1096	1124	1161
45°	1071	1098	1133
50°	1035	1060	1088
55°	985	998	1027
60°	920	924	948
65°	844	839	859
70°	768	746	750
75°	683	645	640
80°	592	529	515
85°	486	375	292



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.2	3.5
10°-20°	237.0	10.0
20°-30°	361.7	15.3
30°-40°	436.1	18.4
40°-50°	444.7	18.8
50°-60°	380.6	16.1
60°-70°	262.2	11.1
70°-80°	134.4	5.7
80°-90°	31.3	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°	680.9	28.7
0°-40°	1116.9	47.1
0°-60°	1942.2	81.9
0°-90°	2370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2370.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	865	863	862	865	867	82
15°	834	834	838	844	847	235
25°	770	773	783	797	802	355
35°	680	682	697	712	718	425
45°	563	564	577	592	595	434
55°	420	417	425	434	438	375
65°	265	259	263	265	270	264
75°	131	126	124	124	123	141
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°	866.7	866.7	866.7	866.7	866.7
2.5°	867.6	865.8	864.0	865.8	867.6
5°	864.9	863.1	862.2	864.9	866.7
7.5°	860.4	858.6	858.6	862.2	864.0
10°	853.2	852.3	854.1	857.7	861.3
12.5°	844.2	844.2	846.9	851.4	855.0
15°	834.4	833.5	837.9	844.2	846.9
17.5°	820.9	821.8	828.1	835.3	838.8
20°	807.4	808.3	814.6	824.5	829.0
22.5°	790.3	792.1	799.3	811.9	816.4
25°	770.5	773.2	783.1	796.6	802.0
27.5°	750.7	753.4	764.2	779.5	786.7
30°	729.2	732.8	743.5	759.7	766.0
32.5°	704.9	707.6	721.1	737.2	743.5
35°	679.7	682.4	696.8	712.1	718.4
37.5°	654.5	654.5	668.9	686.9	693.2
40°	624.0	624.9	640.1	657.2	660.8
42.5°	595.2	595.2	608.7	624.9	631.2
45°	562.8	563.7	577.2	591.6	595.2
47.5°	529.6	529.6	541.2	554.7	558.3
50°	494.5	492.7	506.2	517.0	519.7
52.5°	458.5	455.8	466.6	475.6	479.2
55°	419.9	417.2	425.3	434.3	437.9
57.5°	379.4	375.8	384.8	392.9	394.7
60°	341.7	336.3	343.5	347.9	352.4
62.5°	303.9	297.6	303.0	305.7	309.3
65°	265.2	258.9	263.4	265.2	269.7
67.5°	228.4	223.9	224.8	227.5	229.3
70°	195.1	189.7	189.7	189.7	190.6
72.5°	164.5	156.4	155.5	156.4	156.4
75°	131.3	125.9	124.1	124.1	123.2
77.5°	105.2	98.0	97.1	95.3	93.5
80°	76.4	70.1	68.3	67.4	66.5
82.5°	53.0	47.7	45.9	44.1	41.4
85°	31.5	27.9	24.3	21.6	18.9
87.5°	11.7	10.8	9.0	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)