

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: P296288

Luminaire Tested: **24RLN-LD5-31-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296288
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-LD5-31-RDP-UNV-L92765-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2376.0 lumens
Efficiency: N/A
Efficacy: 109.6 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

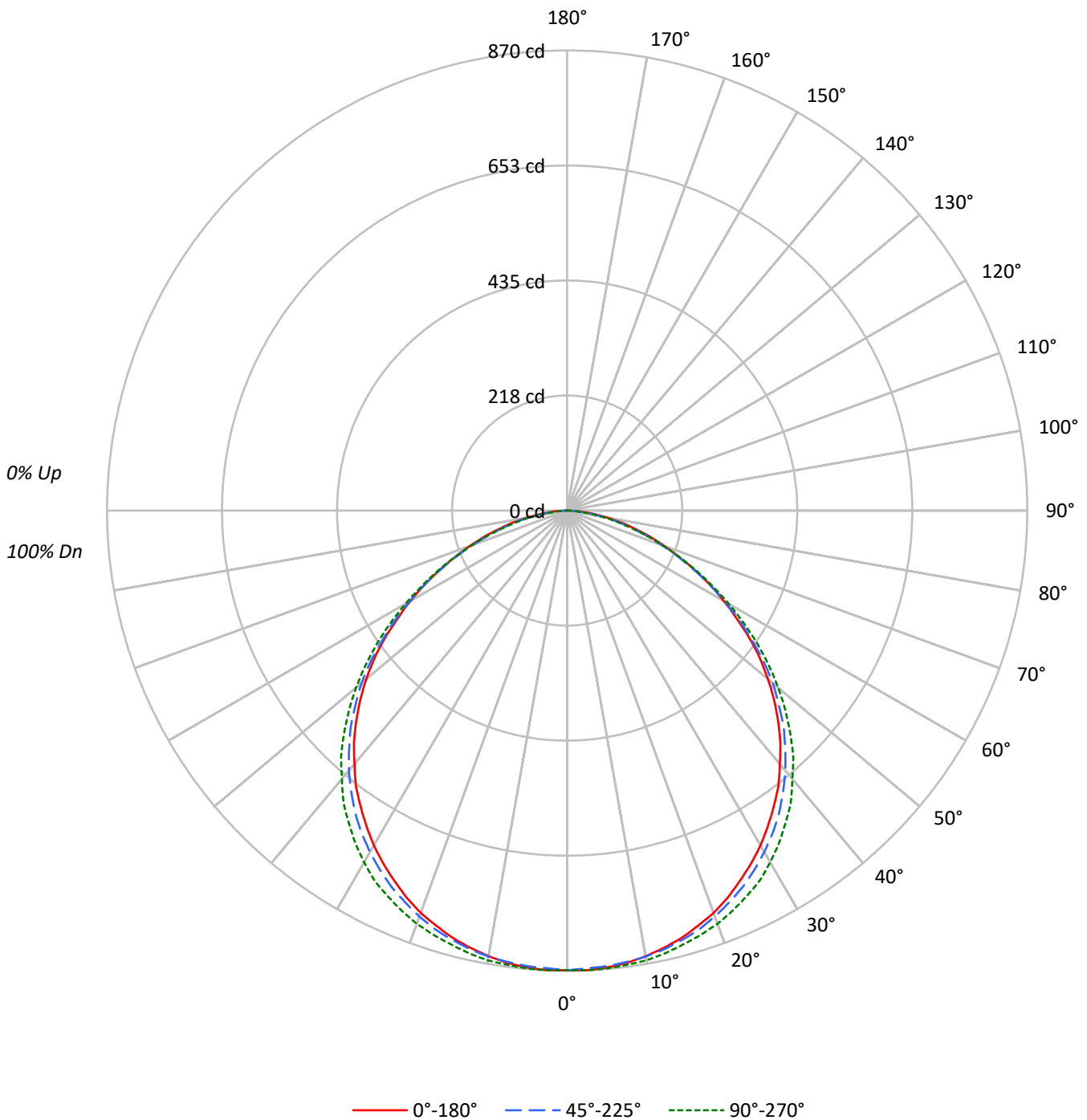
Input Watts (W): 21.669
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1169	1169	1169
5°	1171	1167	1174
10°	1169	1170	1180
15°	1165	1170	1183
20°	1159	1169	1190
25°	1147	1166	1194
30°	1136	1158	1193
35°	1119	1147	1183
40°	1099	1127	1164
45°	1074	1101	1135
50°	1038	1062	1091
55°	987	1000	1030
60°	922	927	951
65°	847	841	861
70°	769	748	752
75°	684	647	642
80°	594	531	517
85°	486	375	292



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	3.5
10°-20°	237.6	10.0
20°-30°	362.6	15.3
30°-40°	437.2	18.4
40°-50°	445.8	18.8
50°-60°	381.5	16.1
60°-70°	262.8	11.1
70°-80°	134.7	5.7
80°-90°	31.4	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°	682.6	28.7
0°-40°	1119.8	47.1
0°-60°	1947.1	81.9
0°-90°	2376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2376.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	867	865	864	867	869	82
15°	836	836	840	846	849	236
25°	772	775	785	799	804	356
35°	681	684	699	714	720	426
45°	564	565	579	593	597	435
55°	421	418	426	435	439	375
65°	266	260	264	266	270	264
75°	132	126	124	124	124	142
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°	868.9	868.9	868.9	868.9	868.9
2.5°	869.8	868.0	866.2	868.0	869.8
5°	867.1	865.3	864.4	867.1	868.9
7.5°	862.6	860.8	860.8	864.4	866.2
10°	855.4	854.5	856.3	859.9	863.5
12.5°	846.4	846.4	849.1	853.6	857.2
15°	836.5	835.6	840.1	846.4	849.1
17.5°	822.9	823.8	830.2	837.4	841.0
20°	809.4	810.3	816.6	826.5	831.1
22.5°	792.3	794.1	801.3	813.9	818.4
25°	772.5	775.2	785.1	798.6	804.0
27.5°	752.6	755.3	766.2	781.5	788.7
30°	731.0	734.6	745.4	761.7	768.0
32.5°	706.7	709.4	722.9	739.1	745.4
35°	681.4	684.1	698.6	713.9	720.2
37.5°	656.2	656.2	670.6	688.6	694.9
40°	625.5	626.4	641.8	658.9	662.5
42.5°	596.7	596.7	610.2	626.4	632.8
45°	564.3	565.2	578.7	593.1	596.7
47.5°	530.9	530.9	542.6	556.1	559.7
50°	495.7	493.9	507.5	518.3	521.0
52.5°	459.7	457.0	467.8	476.8	480.4
55°	420.9	418.2	426.3	435.4	439.0
57.5°	380.4	376.8	385.8	393.9	395.7
60°	342.5	337.1	344.3	348.8	353.3
62.5°	304.7	298.4	303.8	306.5	310.1
65°	265.9	259.6	264.1	265.9	270.4
67.5°	228.9	224.4	225.3	228.0	229.8
70°	195.6	190.2	190.2	190.2	191.1
72.5°	164.9	156.8	155.9	156.8	156.8
75°	131.6	126.2	124.4	124.4	123.5
77.5°	105.5	98.2	97.3	95.5	93.7
80°	76.6	70.3	68.5	67.6	66.7
82.5°	53.2	47.8	46.0	44.2	41.5
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)