

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: P296505

Luminaire Tested: **22RLN-LD5-31-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-31-UNV-L92765-W2A1-U-2700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2464.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

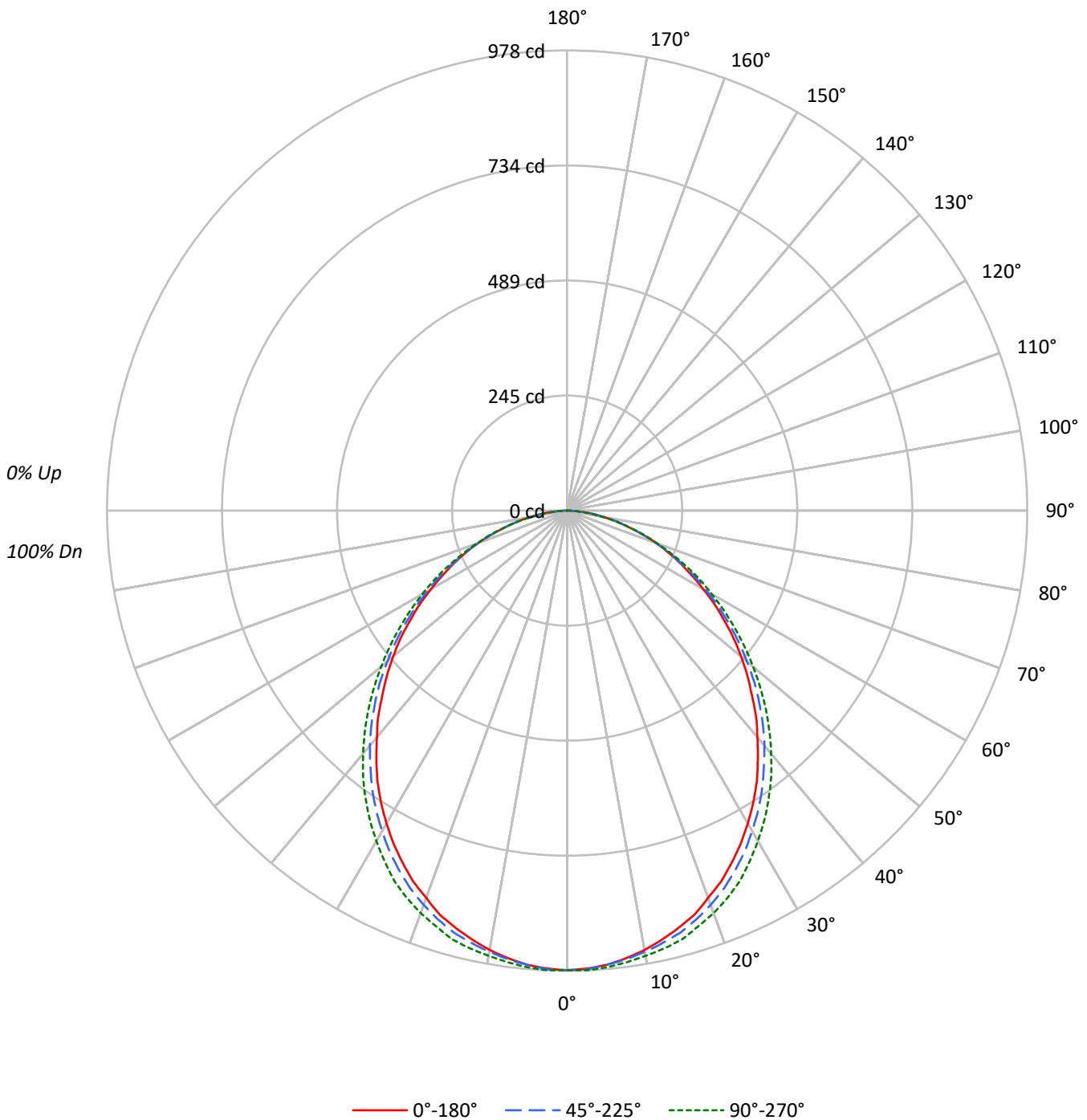
Input Watts (W): 24.366
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36					36			
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2628	2628	2628
5°	2618	2618	2632
10°	2591	2602	2625
15°	2557	2588	2629
20°	2508	2554	2607
25°	2455	2506	2579
30°	2386	2443	2519
35°	2308	2373	2454
40°	2210	2291	2369
45°	2113	2197	2272
50°	2021	2088	2160
55°	1914	1971	2040
60°	1799	1845	1911
65°	1690	1721	1776
70°	1575	1575	1604
75°	1405	1405	1405
80°	1238	1199	1199
85°	985	948	874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	3.7
10°-20°	261.9	10.6
20°-30°	389.0	15.8
30°-40°	451.5	18.3
40°-50°	444.5	18.0
50°-60°	376.2	15.3
60°-70°	268.3	10.9
70°-80°	144.2	5.9
80°-90°	36.4	1.5
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°	743.0	30.2
0°-40°	1194.5	48.5
0°-60°	2015.2	81.8
0°-90°	2464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	977	977	977	977	977	
5°	969	969	969	973	974	92
15°	918	920	929	937	944	259
25°	827	829	844	860	869	380
35°	703	704	722	740	747	438
45°	555	559	577	591	597	429
55°	408	409	420	431	435	365
65°	265	265	270	275	279	263
75°	135	134	135	135	135	145
85°	32	31	31	28	28	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	976.7	976.7	976.7	976.7	976.7
2.5°	974.2	974.2	975.4	976.7	977.9
5°	969.3	969.3	969.3	973.0	974.2
7.5°	959.5	960.7	961.9	965.6	968.1
10°	948.4	949.6	952.1	958.2	960.7
12.5°	933.7	937.4	941.0	949.6	953.3
15°	917.7	920.2	928.8	937.4	943.5
17.5°	900.5	901.7	911.6	923.8	926.3
20°	875.9	879.6	891.9	904.2	910.3
22.5°	853.8	856.3	869.8	885.8	890.7
25°	826.8	829.3	844.0	860.0	868.6
27.5°	798.5	801.0	817.0	834.2	840.3
30°	767.8	770.3	786.3	804.7	810.8
32.5°	735.9	738.3	755.5	771.5	780.1
35°	702.7	703.9	722.4	739.6	746.9
37.5°	665.9	669.5	686.7	703.9	712.5
40°	629.0	632.7	652.3	668.3	674.5
42.5°	594.6	599.5	615.5	630.2	636.4
45°	555.3	559.0	577.4	590.9	597.1
47.5°	519.7	523.4	539.3	552.8	556.5
50°	482.8	485.3	498.8	511.1	516.0
52.5°	446.0	447.2	459.5	471.8	475.4
55°	407.9	409.1	420.2	431.2	434.9
57.5°	372.2	372.2	382.1	390.7	394.4
60°	334.2	334.2	342.8	351.4	355.0
62.5°	298.5	298.5	307.1	313.3	318.2
65°	265.4	265.4	270.3	275.2	278.9
67.5°	233.4	229.7	234.6	240.8	239.6
70°	200.2	196.6	200.2	202.7	203.9
72.5°	167.1	164.6	167.1	168.3	170.8
75°	135.1	133.9	135.1	135.1	135.1
77.5°	108.1	104.4	106.9	105.7	104.4
80°	79.9	78.6	77.4	76.2	77.4
82.5°	55.3	54.1	54.1	51.6	51.6
85°	31.9	30.7	30.7	28.3	28.3
87.5°	12.3	12.3	11.1	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)