

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: P296551

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-31-RDP-UNV-L83050-W2A1-U-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2410.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

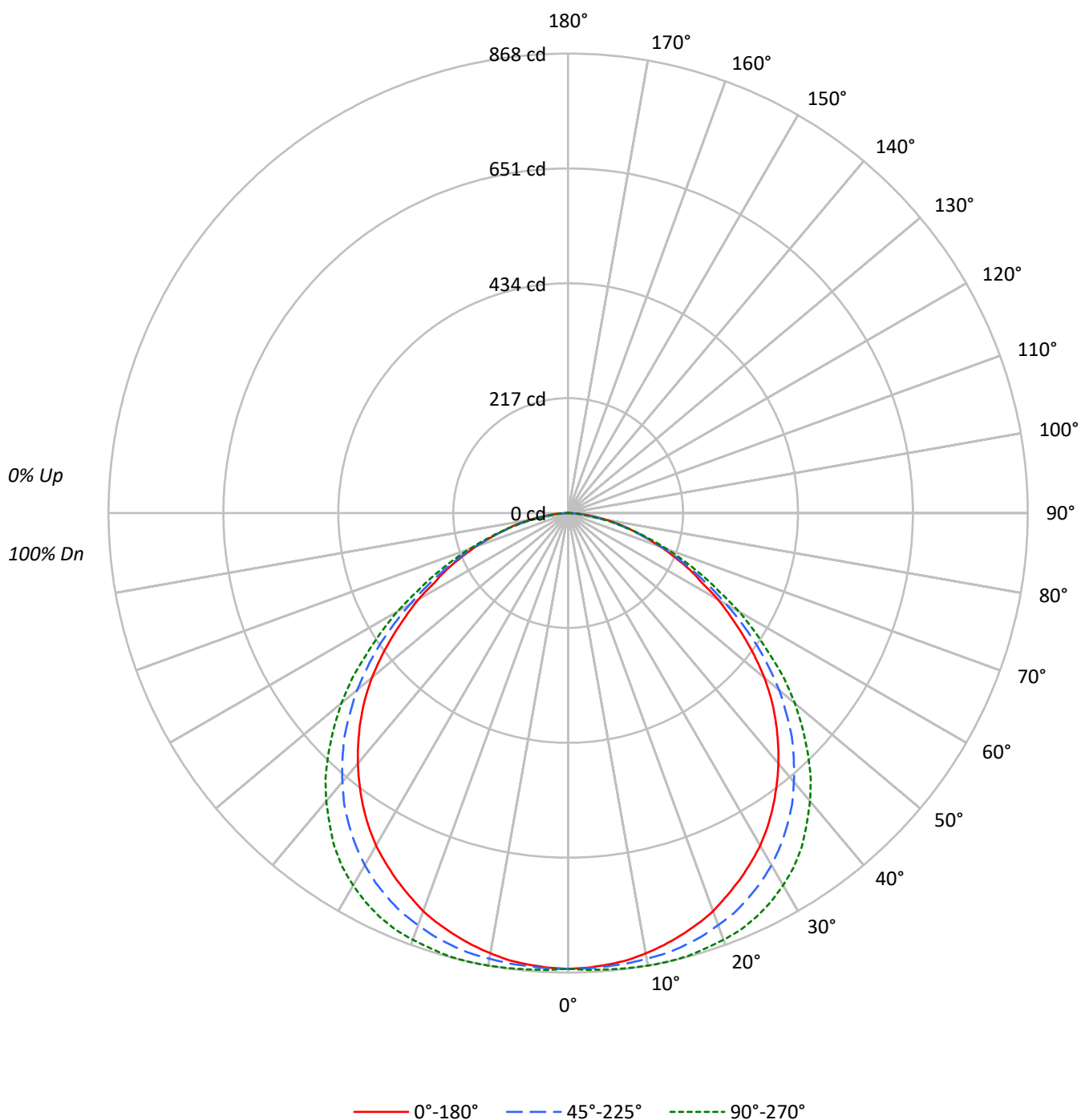
Input Watts (W): 24.366
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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	86	81	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	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	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	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	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2317	2317	2317
5°	2313	2321	2337
10°	2308	2336	2372
15°	2300	2357	2415
20°	2292	2372	2457
25°	2271	2385	2499
30°	2253	2386	2524
35°	2218	2368	2528
40°	2170	2330	2496
45°	2109	2272	2434
50°	2024	2178	2339
55°	1895	2040	2178
60°	1761	1856	2007
65°	1614	1671	1784
70°	1461	1485	1554
75°	1287	1257	1303
80°	1119	1027	982
85°	911	682	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	3.4
10°-20°	239.0	9.9
20°-30°	370.3	15.4
30°-40°	450.7	18.7
40°-50°	459.0	19.0
50°-60°	387.1	16.1
60°-70°	261.9	10.9
70°-80°	130.9	5.4
80°-90°	29.1	1.2
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°	691.3	28.7
0°-40°	1142.0	47.4
0°-60°	1988.2	82.5
0°-90°	2410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	856	858	859	864	865	81
15°	826	831	846	861	867	233
25°	765	777	803	830	842	353
35°	675	690	721	755	770	422
45°	554	565	597	628	640	427
55°	404	410	435	456	464	361
65°	254	249	262	274	280	250
75°	124	119	121	122	125	133
85°	30	25	22	19	19	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	860.9	860.9	860.9	860.9	860.9
2.5°	859.4	859.4	860.9	862.3	863.8
5°	856.4	857.9	859.4	863.8	865.3
7.5°	852.0	853.5	857.9	863.8	866.8
10°	844.6	847.6	855.0	863.8	868.2
12.5°	835.8	840.2	852.0	862.3	868.2
15°	825.5	831.4	846.1	860.9	866.8
17.5°	813.7	821.1	838.7	855.0	862.3
20°	800.4	809.3	828.4	849.1	857.9
22.5°	782.7	794.5	818.1	841.7	852.0
25°	765.0	776.8	803.4	829.9	841.7
27.5°	745.9	759.1	787.2	816.6	828.4
30°	725.2	737.0	768.0	798.9	812.2
32.5°	701.7	713.5	745.9	778.3	793.1
35°	675.1	689.9	720.8	754.7	769.5
37.5°	647.1	660.4	694.3	726.7	740.0
40°	617.6	630.9	663.3	697.2	710.5
42.5°	586.7	599.9	630.9	663.3	678.1
45°	554.3	564.6	597.0	628.0	639.7
47.5°	520.3	527.7	558.7	588.2	599.9
50°	483.5	490.9	520.3	546.9	558.7
52.5°	443.7	449.6	477.6	501.2	514.5
55°	403.9	409.8	434.9	455.5	464.3
57.5°	364.1	367.0	389.2	409.8	418.6
60°	327.2	327.2	344.9	361.1	372.9
62.5°	284.5	288.9	302.2	318.4	322.8
65°	253.5	249.1	262.4	274.2	280.1
67.5°	218.2	215.2	224.1	234.4	237.3
70°	185.7	181.3	188.7	194.6	197.5
72.5°	151.8	150.4	153.3	157.7	159.2
75°	123.8	119.4	120.9	122.3	125.3
77.5°	98.8	91.4	92.9	91.4	92.9
80°	72.2	66.3	66.3	64.9	63.4
82.5°	48.6	45.7	42.7	39.8	38.3
85°	29.5	25.1	22.1	19.2	19.2
87.5°	11.8	8.8	7.4	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)