

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: P296592

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296592  
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-L82765-W2A1-U-4000K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2546.0 lumens  
Efficiency: N/A  
Efficacy: 102.9 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

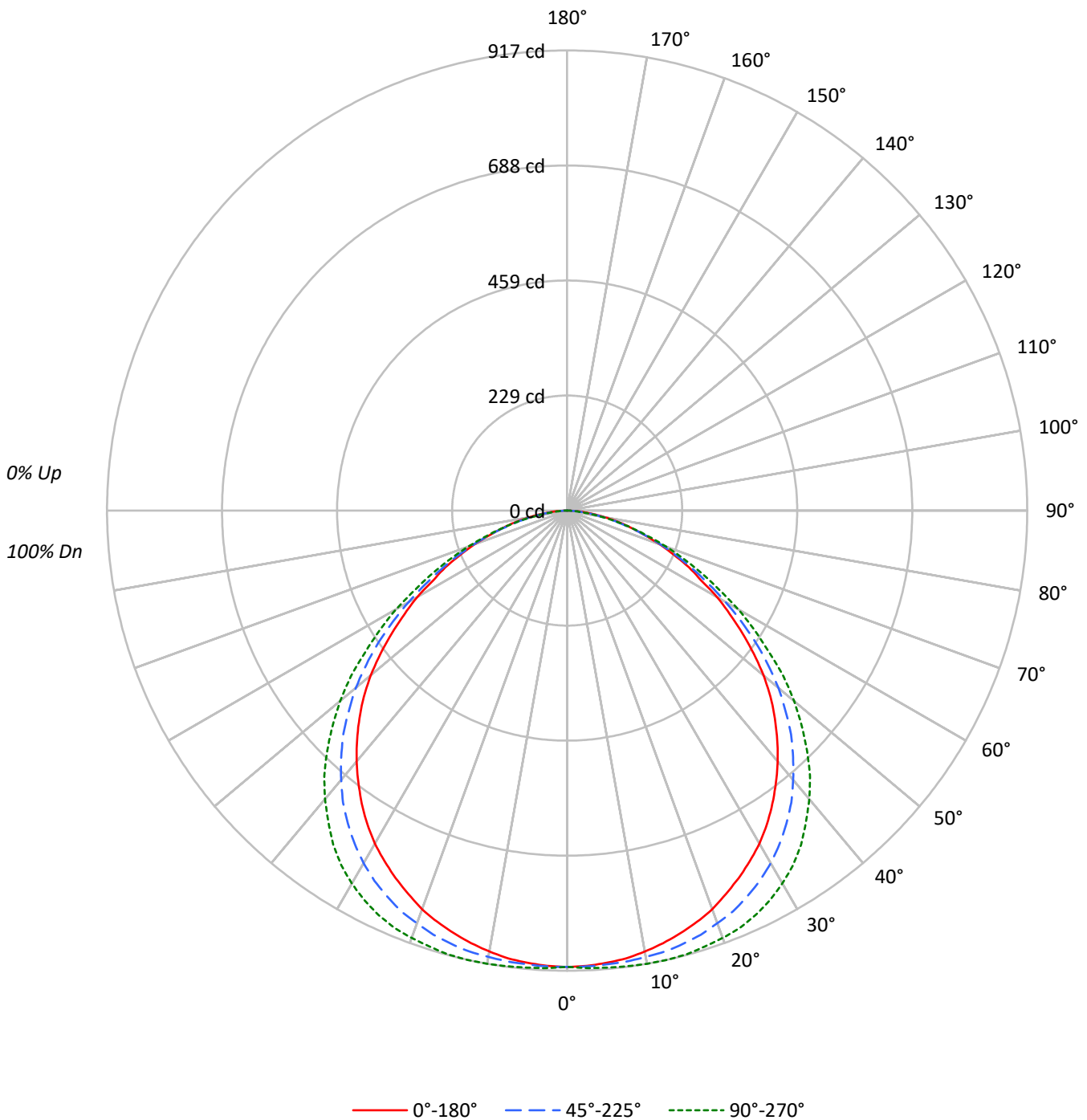
Input Watts (W): 24.738  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	99	96	98	95	93	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	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	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	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	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	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

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

	0°	45°	90°
0°	2447	2447	2447
5°	2444	2452	2469
10°	2438	2468	2506
15°	2430	2490	2551
20°	2422	2506	2595
25°	2400	2520	2640
30°	2381	2521	2666
35°	2343	2502	2670
40°	2292	2462	2637
45°	2228	2400	2572
50°	2138	2301	2471
55°	2002	2155	2301
60°	1861	1961	2120
65°	1705	1765	1884
70°	1544	1568	1642
75°	1360	1328	1377
80°	1182	1086	1038
85°	960	722	624



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.6	3.4
10°-20°	252.5	9.9
20°-30°	391.2	15.4
30°-40°	476.1	18.7
40°-50°	484.9	19.0
50°-60°	409.0	16.1
60°-70°	276.6	10.9
70°-80°	138.2	5.4
80°-90°	30.8	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°	730.3	28.7
0°-40°	1206.5	47.4
0°-60°	2100.4	82.5
0°-90°	2546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2546.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	905	906	908	913	914	86
15°	872	878	894	909	916	246
25°	808	821	849	877	889	373
35°	713	729	762	797	813	446
45°	586	596	631	663	676	451
55°	427	433	459	481	490	382
65°	268	263	277	290	296	265
75°	131	126	128	129	132	140
85°	31	26	23	20	20	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	909.4	909.4	909.4	909.4	909.4
2.5°	907.9	907.9	909.4	911.0	912.6
5°	904.8	906.3	907.9	912.6	914.1
7.5°	900.1	901.7	906.3	912.6	915.7
10°	892.3	895.4	903.2	912.6	917.2
12.5°	883.0	887.6	900.1	911.0	917.2
15°	872.1	878.3	893.9	909.4	915.7
17.5°	859.6	867.4	886.1	903.2	911.0
20°	845.6	854.9	875.2	897.0	906.3
22.5°	826.9	839.4	864.3	889.2	900.1
25°	808.2	820.7	848.7	876.7	889.2
27.5°	788.0	802.0	831.6	862.7	875.2
30°	766.2	778.6	811.3	844.0	858.1
32.5°	741.3	753.7	788.0	822.2	837.8
35°	713.2	728.8	761.5	797.3	812.9
37.5°	683.6	697.7	733.5	767.7	781.7
40°	652.5	666.5	700.8	736.6	750.6
42.5°	619.8	633.8	666.5	700.8	716.3
45°	585.5	596.4	630.7	663.4	675.9
47.5°	549.7	557.5	590.2	621.3	633.8
50°	510.8	518.6	549.7	577.7	590.2
52.5°	468.7	475.0	504.6	529.5	543.5
55°	426.7	432.9	459.4	481.2	490.5
57.5°	384.6	387.8	411.1	432.9	442.3
60°	345.7	345.7	364.4	381.5	394.0
62.5°	300.6	305.2	319.2	336.4	341.0
65°	267.8	263.2	277.2	289.7	295.9
67.5°	230.5	227.4	236.7	247.6	250.7
70°	196.2	191.5	199.3	205.6	208.7
72.5°	160.4	158.8	162.0	166.6	168.2
75°	130.8	126.1	127.7	129.3	132.4
77.5°	104.3	96.6	98.1	96.6	98.1
80°	76.3	70.1	70.1	68.5	67.0
82.5°	51.4	48.3	45.2	42.0	40.5
85°	31.1	26.5	23.4	20.2	20.2
87.5°	12.5	9.3	7.8	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)