

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: P296556

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296556  
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-LD5-35-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: 2713.0 lumens  
Efficiency: N/A  
Efficacy: 97.6 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

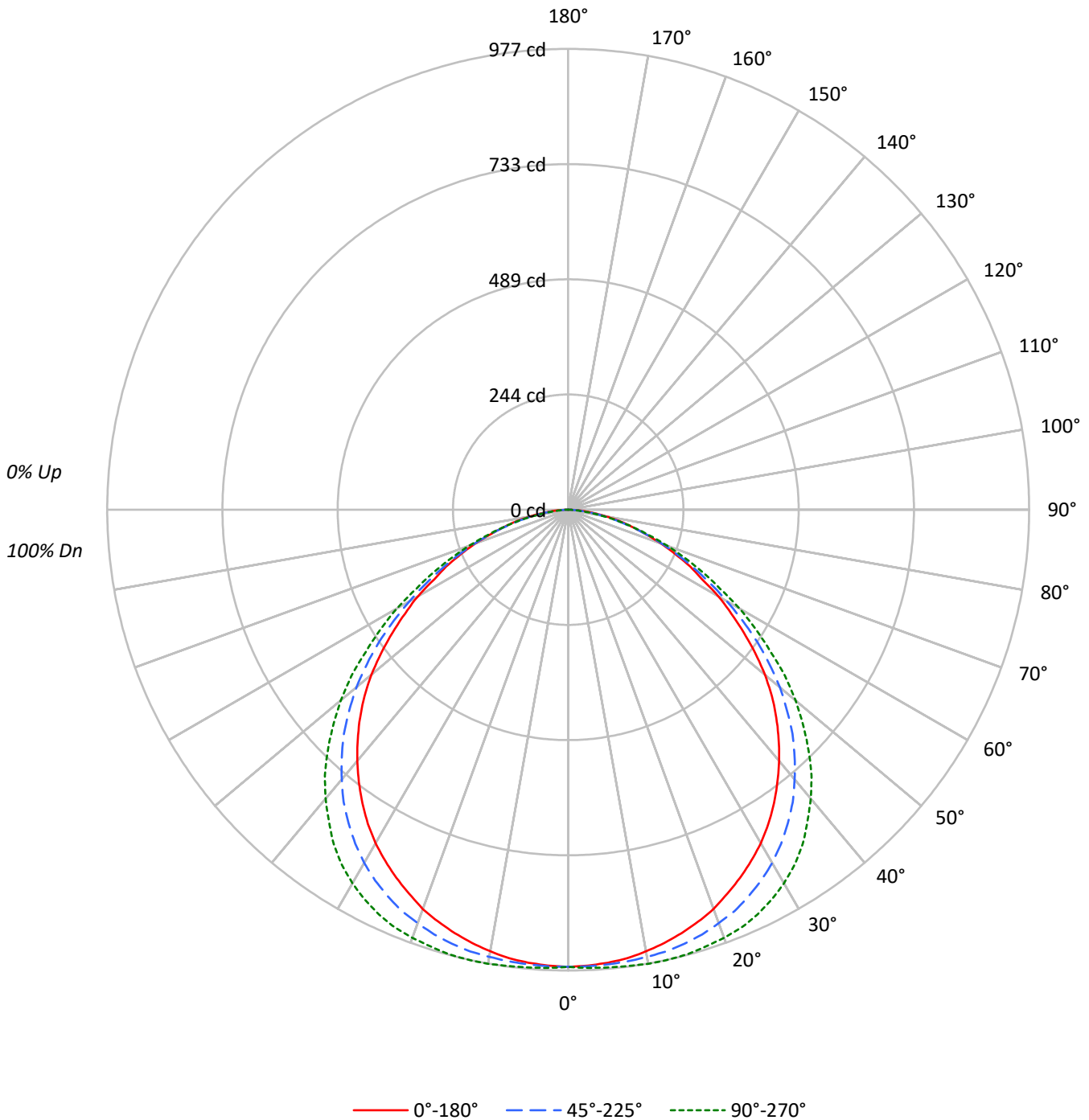
Input Watts (W): 27.807  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P296556

CATALOG NUMBER: 22RLN-LD5-35-RDP-UNV-L83050-W2A1-U-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P296556

CATALOG NUMBER: 22RLN-LD5-35-RDP-UNV-L83050-W2A1-U-3000K

**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°	2608	2608	2608
5°	2604	2613	2631
10°	2598	2630	2671
15°	2589	2654	2718
20°	2580	2671	2766
25°	2557	2685	2813
30°	2537	2687	2841
35°	2497	2666	2846
40°	2442	2623	2810
45°	2374	2558	2741
50°	2279	2452	2633
55°	2133	2297	2452
60°	1983	2090	2259
65°	1817	1881	2008
70°	1645	1671	1750
75°	1449	1415	1466
80°	1260	1158	1106
85°	1025	769	667



TEST NUMBER: P296556

CATALOG NUMBER: 22RLN-LD5-35-RDP-UNV-L83050-W2A1-U-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.3	3.4
10°-20°	269.1	9.9
20°-30°	416.9	15.4
30°-40°	507.4	18.7
40°-50°	516.7	19.0
50°-60°	435.8	16.1
60°-70°	294.8	10.9
70°-80°	147.3	5.4
80°-90°	32.8	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°	778.2	28.7
0°-40°	1285.6	47.4
0°-60°	2238.1	82.5
0°-90°	2713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2713.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	969	969	969	969	969	
5°	964	966	967	972	974	92
15°	929	936	952	969	976	262
25°	861	874	904	934	948	397
35°	760	777	811	850	866	475
45°	624	636	672	707	720	480
55°	455	461	490	513	523	407
65°	285	280	295	309	315	282
75°	139	134	136	138	141	149
85°	33	28	25	22	22	39
90°	0	0	0	0	0	



TEST NUMBER: P296556

CATALOG NUMBER: 22RLN-LD5-35-RDP-UNV-L83050-W2A1-U-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	969.1	969.1	969.1	969.1	969.1
2.5°	967.4	967.4	969.1	970.8	972.4
5°	964.1	965.8	967.4	972.4	974.1
7.5°	959.1	960.8	965.8	972.4	975.7
10°	950.8	954.2	962.5	972.4	977.4
12.5°	940.9	945.9	959.1	970.8	977.4
15°	929.3	935.9	952.5	969.1	975.7
17.5°	916.0	924.3	944.2	962.5	970.8
20°	901.1	911.0	932.6	955.8	965.8
22.5°	881.1	894.4	921.0	947.5	959.1
25°	861.2	874.5	904.4	934.2	947.5
27.5°	839.7	854.6	886.1	919.3	932.6
30°	816.4	829.7	864.6	899.4	914.3
32.5°	789.9	803.2	839.7	876.2	892.8
35°	760.0	776.6	811.4	849.6	866.2
37.5°	728.5	743.4	781.6	818.1	833.0
40°	695.3	710.2	746.7	784.9	799.8
42.5°	660.4	675.4	710.2	746.7	763.3
45°	623.9	635.6	672.1	706.9	720.2
47.5°	585.8	594.1	628.9	662.1	675.4
50°	544.3	552.6	585.8	615.6	628.9
52.5°	499.5	506.1	537.6	564.2	579.1
55°	454.7	461.3	489.5	512.8	522.7
57.5°	409.9	413.2	438.1	461.3	471.3
60°	368.4	368.4	388.3	406.6	419.8
62.5°	320.3	325.2	340.2	358.4	363.4
65°	285.4	280.4	295.4	308.6	315.3
67.5°	245.6	242.3	252.2	263.8	267.2
70°	209.1	204.1	212.4	219.0	222.4
72.5°	170.9	169.3	172.6	177.6	179.2
75°	139.4	134.4	136.1	137.7	141.0
77.5°	111.2	102.9	104.5	102.9	104.5
80°	81.3	74.7	74.7	73.0	71.4
82.5°	54.8	51.4	48.1	44.8	43.1
85°	33.2	28.2	24.9	21.6	21.6
87.5°	13.3	10.0	8.3	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)