

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: P296594

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296594
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-5000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2626.0 lumens
Efficiency: N/A
Efficacy: 105.0 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

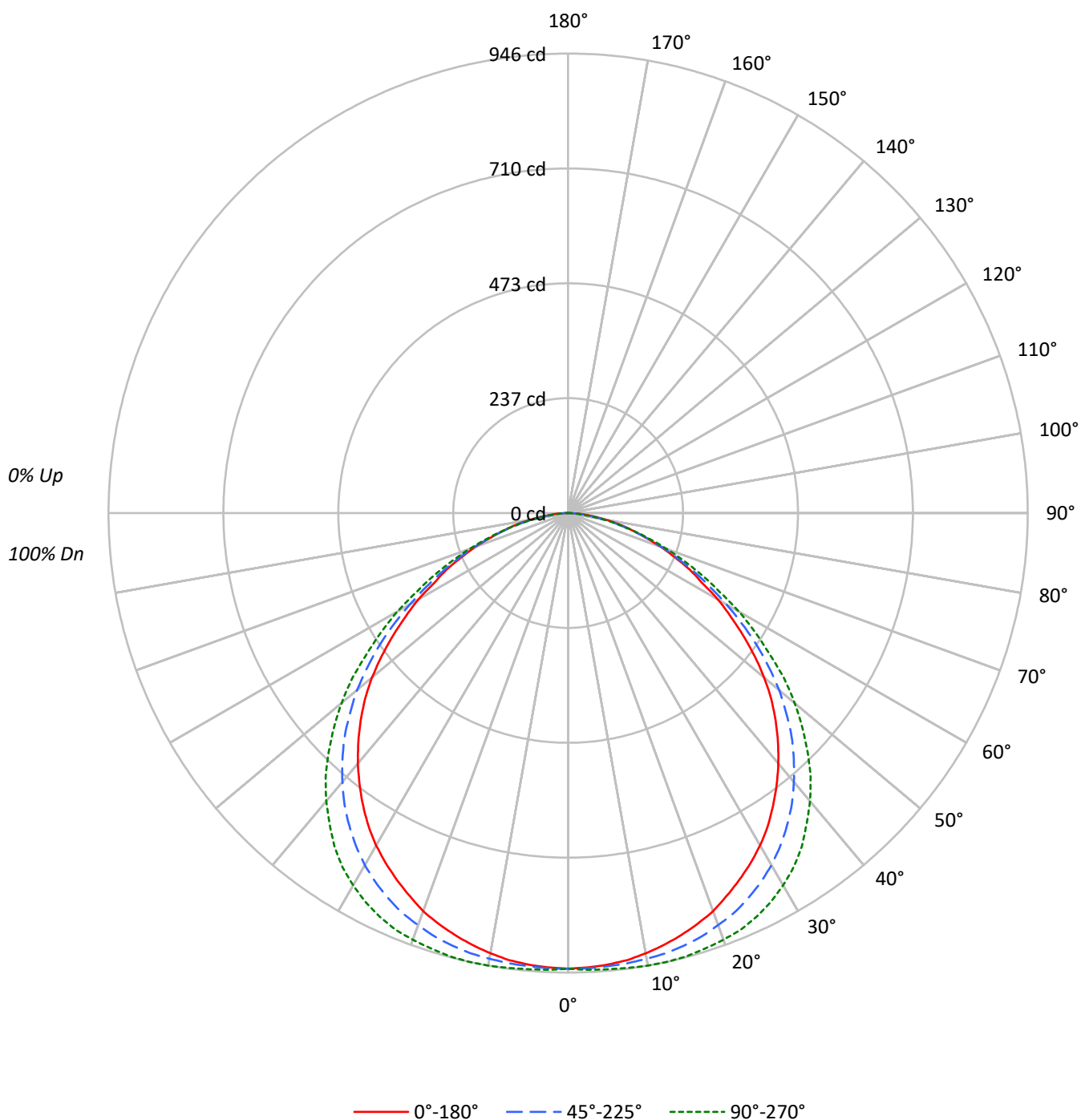
Input Watts (W): 25.017
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	98	95	93		94	92	90		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		44
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40
10	54	41	33	28	52	40	33	27	39	32	27		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2524	2524	2524
5°	2521	2529	2547
10°	2515	2546	2585
15°	2506	2569	2631
20°	2498	2585	2677
25°	2475	2599	2723
30°	2455	2600	2750
35°	2417	2580	2754
40°	2364	2539	2720
45°	2298	2476	2653
50°	2205	2374	2548
55°	2065	2223	2374
60°	1919	2023	2187
65°	1759	1820	1943
70°	1592	1618	1693
75°	1403	1369	1419
80°	1220	1120	1071
85°	991	744	645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	3.4
10°-20°	260.4	9.9
20°-30°	403.5	15.4
30°-40°	491.1	18.7
40°-50°	500.2	19.0
50°-60°	421.8	16.1
60°-70°	285.3	10.9
70°-80°	142.6	5.4
80°-90°	31.7	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°	753.3	28.7
0°-40°	1244.4	47.4
0°-60°	2166.4	82.5
0°-90°	2626.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2626.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	938	938	938	938	938	
5°	933	935	936	941	943	89
15°	900	906	922	938	944	254
25°	834	846	875	904	917	384
35°	736	752	785	822	838	460
45°	604	615	650	684	697	465
55°	440	446	474	496	506	394
65°	276	271	286	299	305	273
75°	135	130	132	133	136	145
85°	32	27	24	21	21	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	938.0	938.0	938.0	938.0	938.0
2.5°	936.4	936.4	938.0	939.6	941.2
5°	933.2	934.8	936.4	941.2	942.8
7.5°	928.4	930.0	934.8	941.2	944.4
10°	920.3	923.6	931.6	941.2	946.0
12.5°	910.7	915.5	928.4	939.6	946.0
15°	899.5	905.9	922.0	938.0	944.4
17.5°	886.6	894.6	913.9	931.6	939.6
20°	872.2	881.8	902.7	925.2	934.8
22.5°	852.9	865.7	891.4	917.1	928.4
25°	833.6	846.5	875.4	904.3	917.1
27.5°	812.7	827.2	857.7	889.8	902.7
30°	790.2	803.1	836.8	870.6	885.0
32.5°	764.5	777.4	812.7	848.1	864.1
35°	735.6	751.7	785.4	822.4	838.4
37.5°	705.1	719.6	756.5	791.9	806.3
40°	673.0	687.5	722.8	759.7	774.2
42.5°	639.3	653.7	687.5	722.8	738.8
45°	603.9	615.2	650.5	684.2	697.1
47.5°	567.0	575.0	608.7	640.9	653.7
50°	526.8	534.9	567.0	595.9	608.7
52.5°	483.5	489.9	520.4	546.1	560.6
55°	440.1	446.5	473.8	496.3	506.0
57.5°	396.7	399.9	424.0	446.5	456.2
60°	356.6	356.6	375.8	393.5	406.4
62.5°	310.0	314.8	329.3	346.9	351.8
65°	276.3	271.4	285.9	298.8	305.2
67.5°	237.7	234.5	244.1	255.4	258.6
70°	202.4	197.6	205.6	212.0	215.2
72.5°	165.4	163.8	167.0	171.9	173.5
75°	134.9	130.1	131.7	133.3	136.5
77.5°	107.6	99.6	101.2	99.6	101.2
80°	78.7	72.3	72.3	70.7	69.1
82.5°	53.0	49.8	46.6	43.4	41.8
85°	32.1	27.3	24.1	20.9	20.9
87.5°	12.8	9.6	8.0	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)