

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: P296597

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296597
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-6500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2666.0 lumens
Efficiency: N/A
Efficacy: 104.2 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

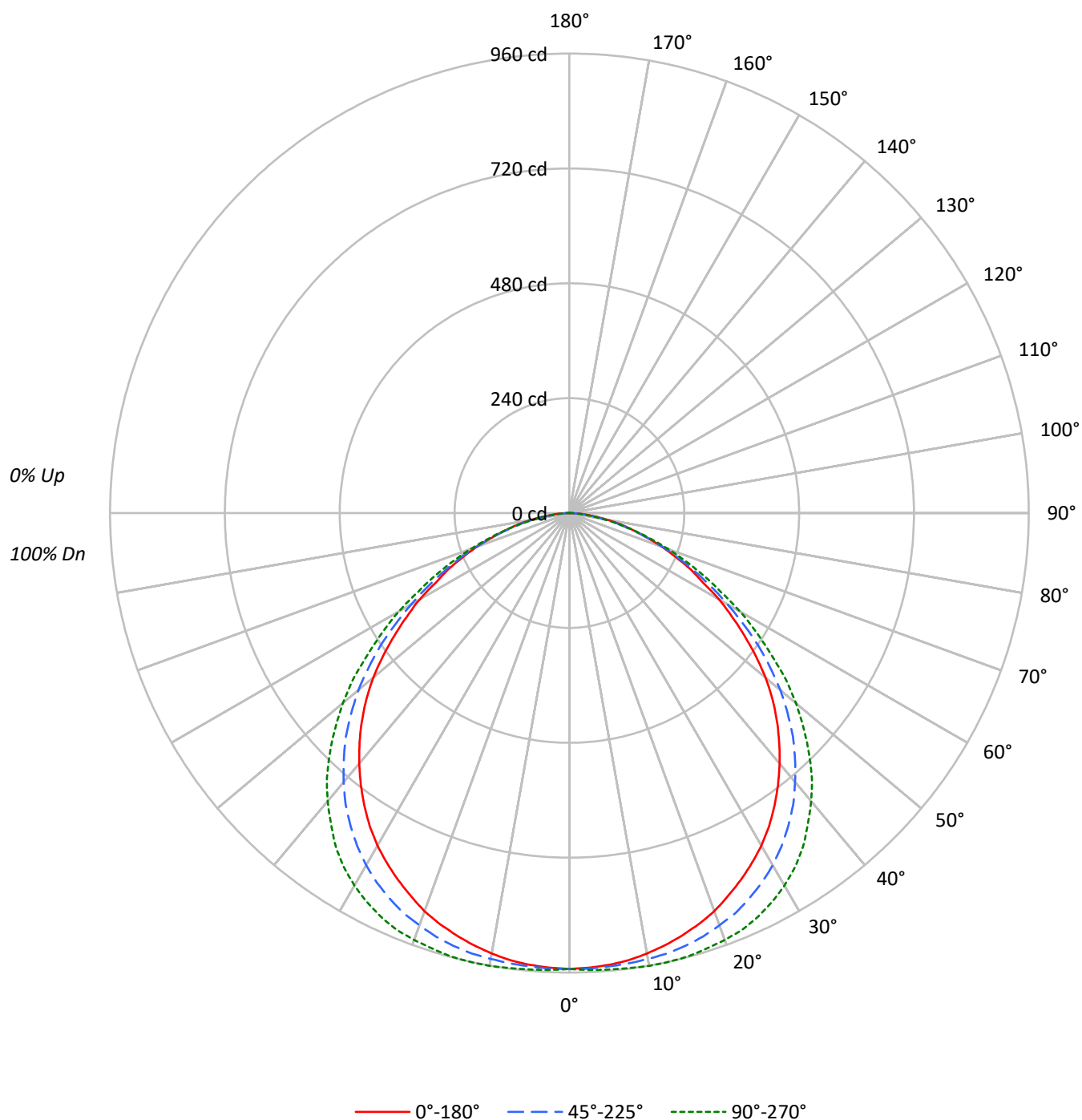
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		94	92	90		91	89	87
2	100	92	85	80	97	90	84	79		86	81	77		83	79	75		80	77	74
3	91	81	73	67	89	79	72	66		76	70	65		74	68	64		71	67	63
4	84	72	63	57	81	71	63	56		68	61	56		66	60	55		64	58	54
5	77	64	56	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		54	47	42		52	46	42
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	33		45	38	33		44	38	33
9	57	44	36	30	56	43	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	52	40	33	27		39	32	27		38	32	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2563	2563	2563
5°	2559	2568	2586
10°	2553	2584	2625
15°	2544	2608	2671
20°	2536	2624	2718
25°	2513	2639	2765
30°	2493	2640	2792
35°	2453	2620	2796
40°	2400	2578	2761
45°	2333	2513	2693
50°	2239	2410	2587
55°	2096	2257	2410
60°	1948	2054	2221
65°	1786	1848	1973
70°	1617	1642	1719
75°	1424	1390	1441
80°	1238	1137	1086
85°	1007	756	655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	3.4
10°-20°	264.4	9.9
20°-30°	409.7	15.4
30°-40°	498.6	18.7
40°-50°	507.8	19.0
50°-60°	428.2	16.1
60°-70°	289.7	10.9
70°-80°	144.8	5.4
80°-90°	32.2	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°	764.8	28.7
0°-40°	1263.3	47.4
0°-60°	2199.3	82.5
0°-90°	2666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	947	949	951	956	957	90
15°	913	920	936	952	959	258
25°	846	859	889	918	931	390
35°	747	763	797	835	851	467
45°	613	624	660	695	708	472
55°	447	453	481	504	514	400
65°	280	276	290	303	310	277
75°	137	132	134	135	139	147
85°	33	28	24	21	21	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	952.3	952.3	952.3	952.3	952.3
2.5°	950.7	950.7	952.3	953.9	955.6
5°	947.4	949.0	950.7	955.6	957.2
7.5°	942.5	944.2	949.0	955.6	958.8
10°	934.4	937.6	945.8	955.6	960.5
12.5°	924.6	929.5	942.5	953.9	960.5
15°	913.2	919.7	936.0	952.3	958.8
17.5°	900.1	908.3	927.8	945.8	953.9
20°	885.4	895.2	916.4	939.3	949.0
22.5°	865.9	878.9	905.0	931.1	942.5
25°	846.3	859.4	888.7	918.1	931.1
27.5°	825.1	839.8	870.8	903.4	916.4
30°	802.3	815.3	849.6	883.8	898.5
32.5°	776.2	789.2	825.1	861.0	877.3
35°	746.8	763.1	797.4	834.9	851.2
37.5°	715.9	730.5	768.0	803.9	818.6
40°	683.2	697.9	733.8	771.3	786.0
42.5°	649.0	663.7	697.9	733.8	750.1
45°	613.1	624.5	660.4	694.7	707.7
47.5°	575.6	583.8	618.0	650.6	663.7
50°	534.9	543.0	575.6	605.0	618.0
52.5°	490.8	497.4	528.3	554.4	569.1
55°	446.8	453.3	481.0	503.9	513.7
57.5°	402.8	406.0	430.5	453.3	463.1
60°	362.0	362.0	381.6	399.5	412.6
62.5°	314.7	319.6	334.3	352.2	357.1
65°	280.5	275.6	290.3	303.3	309.8
67.5°	241.3	238.1	247.9	259.3	262.5
70°	205.5	200.6	208.7	215.2	218.5
72.5°	168.0	166.3	169.6	174.5	176.1
75°	137.0	132.1	133.7	135.3	138.6
77.5°	109.3	101.1	102.7	101.1	102.7
80°	79.9	73.4	73.4	71.7	70.1
82.5°	53.8	50.6	47.3	44.0	42.4
85°	32.6	27.7	24.5	21.2	21.2
87.5°	13.0	9.8	8.2	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)