

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: P296595

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296595
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-5500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2652.0 lumens
Efficiency: N/A
Efficacy: 105.6 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

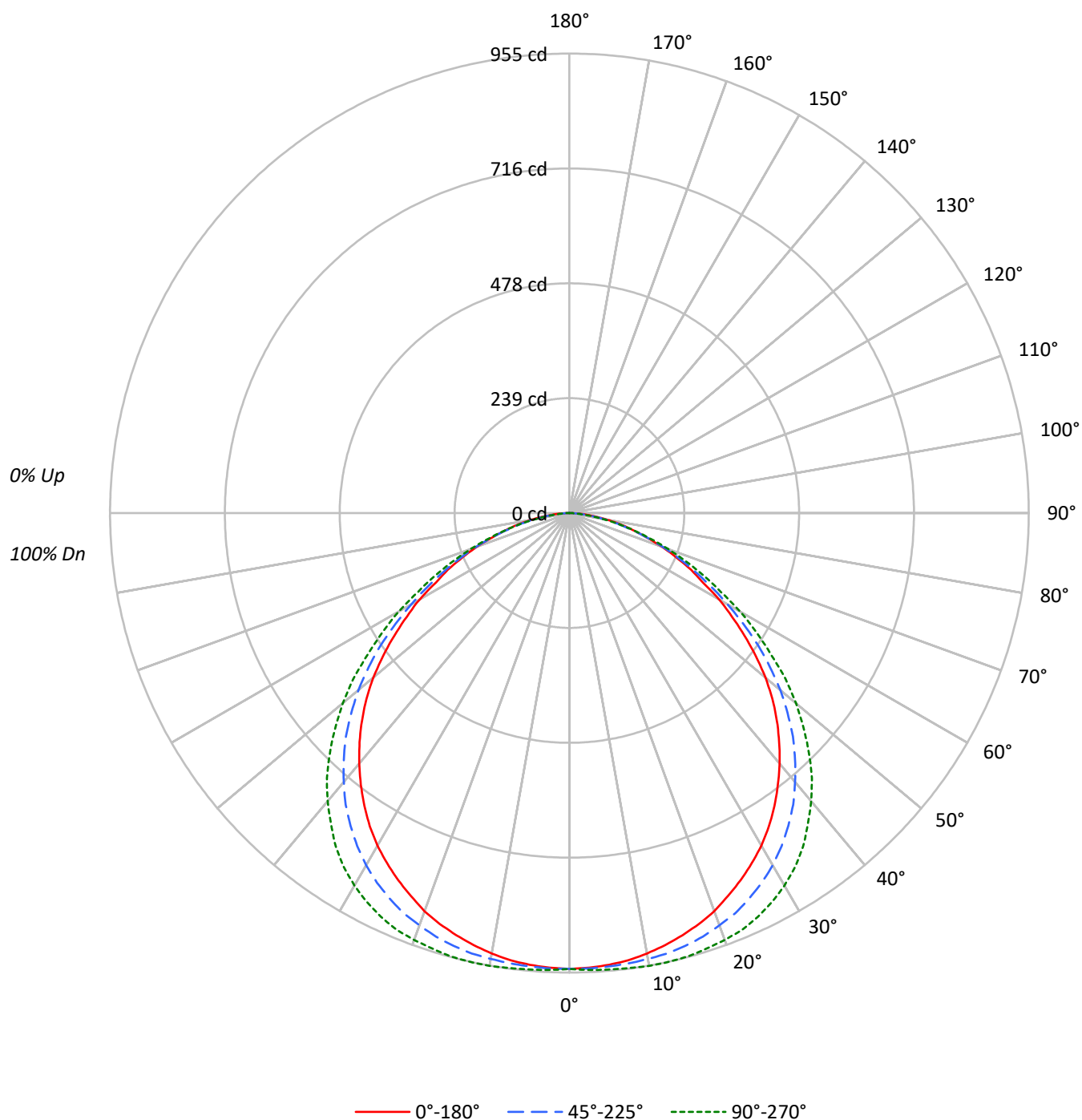
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2549	2549	2549
5°	2546	2555	2572
10°	2540	2571	2611
15°	2531	2594	2657
20°	2522	2611	2704
25°	2500	2625	2750
30°	2480	2626	2777
35°	2440	2606	2781
40°	2388	2564	2746
45°	2321	2500	2679
50°	2227	2397	2574
55°	2085	2245	2397
60°	1938	2043	2209
65°	1777	1838	1962
70°	1608	1633	1710
75°	1417	1383	1434
80°	1232	1131	1082
85°	1000	750	651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	3.4
10°-20°	263.0	9.9
20°-30°	407.5	15.4
30°-40°	496.0	18.7
40°-50°	505.1	19.0
50°-60°	426.0	16.1
60°-70°	288.1	10.9
70°-80°	144.0	5.4
80°-90°	32.0	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°	760.7	28.7
0°-40°	1256.7	47.4
0°-60°	2187.8	82.5
0°-90°	2652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	942	944	946	950	952	90
15°	908	915	931	947	954	256
25°	842	855	884	913	926	388
35°	743	759	793	830	847	464
45°	610	621	657	691	704	470
55°	444	451	478	501	511	398
65°	279	274	289	302	308	276
75°	136	131	133	135	138	146
85°	32	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°	947.3	947.3	947.3	947.3	947.3
2.5°	945.7	945.7	947.3	948.9	950.5
5°	942.4	944.1	945.7	950.5	952.2
7.5°	937.6	939.2	944.1	950.5	953.8
10°	929.5	932.7	940.8	950.5	955.4
12.5°	919.7	924.6	937.6	948.9	955.4
15°	908.4	914.9	931.1	947.3	953.8
17.5°	895.4	903.5	923.0	940.8	948.9
20°	880.8	890.5	911.6	934.3	944.1
22.5°	861.3	874.3	900.3	926.2	937.6
25°	841.9	854.8	884.0	913.2	926.2
27.5°	820.8	835.4	866.2	898.6	911.6
30°	798.1	811.0	845.1	879.2	893.8
32.5°	772.1	785.1	820.8	856.5	872.7
35°	742.9	759.1	793.2	830.5	846.7
37.5°	712.1	726.7	764.0	799.7	814.3
40°	679.7	694.3	729.9	767.3	781.8
42.5°	645.6	660.2	694.3	729.9	746.2
45°	609.9	621.3	656.9	691.0	704.0
47.5°	572.6	580.7	614.8	647.2	660.2
50°	532.0	540.2	572.6	601.8	614.8
52.5°	488.3	494.7	525.6	551.5	566.1
55°	444.5	450.9	478.5	501.2	511.0
57.5°	400.7	403.9	428.2	450.9	460.7
60°	360.1	360.1	379.6	397.4	410.4
62.5°	313.1	317.9	332.5	350.4	355.2
65°	279.0	274.1	288.7	301.7	308.2
67.5°	240.1	236.8	246.6	257.9	261.2
70°	204.4	199.5	207.6	214.1	217.4
72.5°	167.1	165.5	168.7	173.6	175.2
75°	136.3	131.4	133.0	134.6	137.9
77.5°	108.7	100.6	102.2	100.6	102.2
80°	79.5	73.0	73.0	71.4	69.8
82.5°	53.5	50.3	47.0	43.8	42.2
85°	32.4	27.6	24.3	21.1	21.1
87.5°	13.0	9.7	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)