

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: P296554

Luminaire Tested: **22RLN-LD5-31-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296554
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-L83050-W2A1-U-4500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2704.0 lumens
Efficiency: N/A
Efficacy: 105.3 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

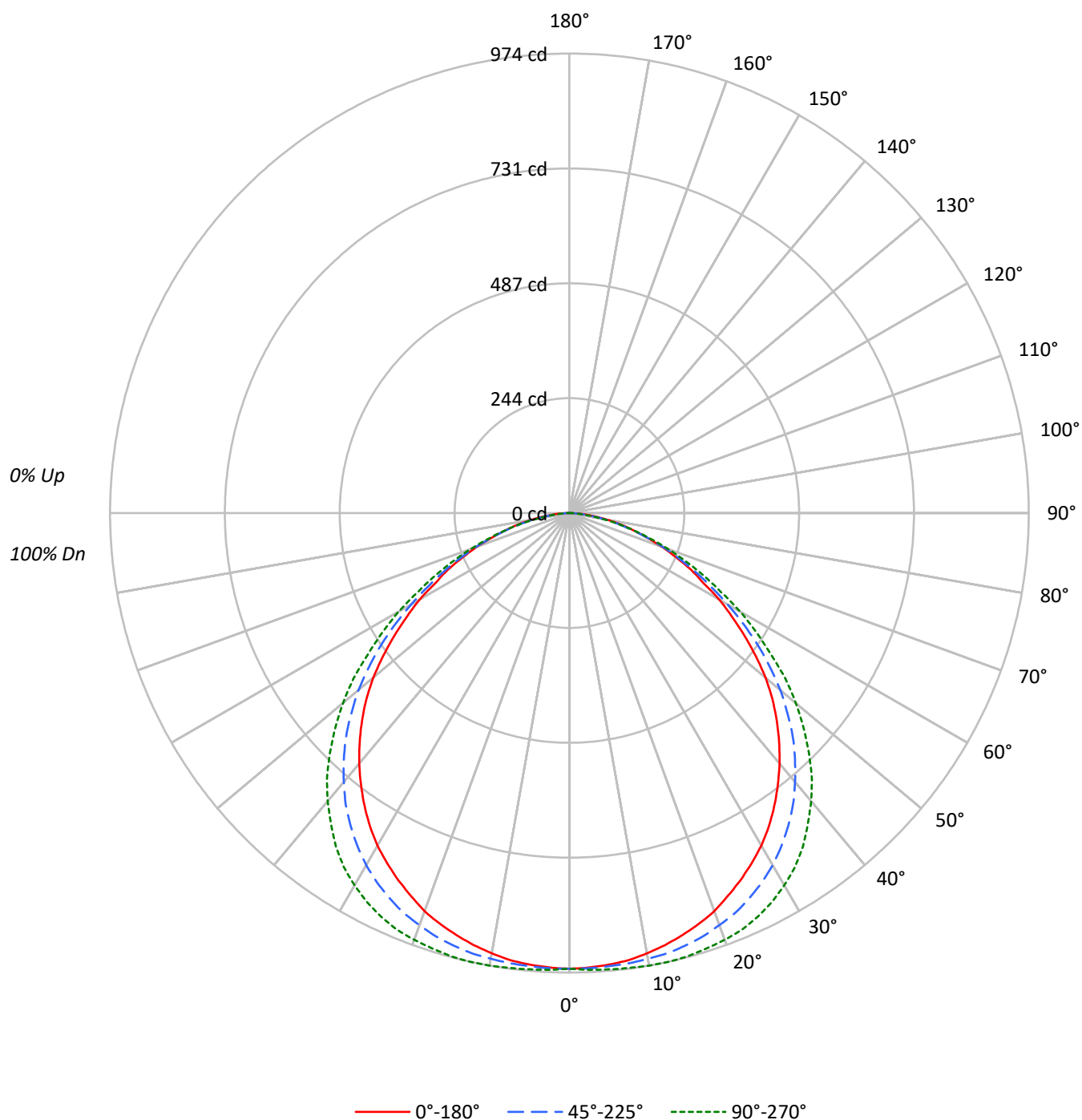
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2599	2599	2599
5°	2596	2605	2622
10°	2590	2621	2662
15°	2580	2645	2709
20°	2572	2662	2757
25°	2549	2676	2804
30°	2528	2678	2832
35°	2488	2657	2836
40°	2434	2615	2800
45°	2367	2549	2732
50°	2271	2444	2624
55°	2126	2289	2444
60°	1976	2083	2252
65°	1812	1875	2001
70°	1640	1666	1744
75°	1444	1410	1462
80°	1255	1153	1102
85°	1022	766	664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	3.4
10°-20°	268.2	9.9
20°-30°	415.5	15.4
30°-40°	505.7	18.7
40°-50°	515.0	19.0
50°-60°	434.3	16.1
60°-70°	293.8	10.9
70°-80°	146.8	5.4
80°-90°	32.7	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°	775.7	28.7
0°-40°	1281.4	47.4
0°-60°	2230.7	82.5
0°-90°	2704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	961	963	964	969	971	91
15°	926	933	949	966	972	261
25°	858	872	901	931	944	396
35°	758	774	809	847	863	473
45°	622	633	670	705	718	479
55°	453	460	488	511	521	405
65°	284	280	294	308	314	281
75°	139	134	136	137	141	149
85°	33	28	25	22	22	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	965.9	965.9	965.9	965.9	965.9
2.5°	964.2	964.2	965.9	967.5	969.2
5°	960.9	962.6	964.2	969.2	970.8
7.5°	956.0	957.6	962.6	969.2	972.5
10°	947.7	951.0	959.3	969.2	974.1
12.5°	937.8	942.7	956.0	967.5	974.1
15°	926.2	932.8	949.3	965.9	972.5
17.5°	913.0	921.2	941.1	959.3	967.5
20°	898.1	908.0	929.5	952.6	962.6
22.5°	878.2	891.5	917.9	944.4	956.0
25°	858.4	871.6	901.4	931.1	944.4
27.5°	836.9	851.8	883.2	916.3	929.5
30°	813.7	827.0	861.7	896.4	911.3
32.5°	787.3	800.5	836.9	873.3	889.8
35°	757.5	774.0	808.8	846.8	863.3
37.5°	726.1	740.9	779.0	815.4	830.3
40°	693.0	707.9	744.3	782.3	797.2
42.5°	658.3	673.1	707.9	744.3	760.8
45°	621.9	633.4	669.8	704.6	717.8
47.5°	583.8	592.1	626.8	659.9	673.1
50°	542.5	550.7	583.8	613.6	626.8
52.5°	497.8	504.4	535.9	562.3	577.2
55°	453.2	459.8	487.9	511.1	521.0
57.5°	408.5	411.8	436.6	459.8	469.7
60°	367.2	367.2	387.0	405.2	418.4
62.5°	319.2	324.2	339.0	357.2	362.2
65°	284.5	279.5	294.4	307.6	314.2
67.5°	244.8	241.5	251.4	263.0	266.3
70°	208.4	203.4	211.7	218.3	221.6
72.5°	170.4	168.7	172.0	177.0	178.6
75°	138.9	134.0	135.6	137.3	140.6
77.5°	110.8	102.5	104.2	102.5	104.2
80°	81.0	74.4	74.4	72.8	71.1
82.5°	54.6	51.3	48.0	44.7	43.0
85°	33.1	28.1	24.8	21.5	21.5
87.5°	13.2	9.9	8.3	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)