

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: P296500

Luminaire Tested: **22RLN-LD5-25-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-25-UNV-L92765-W2A1-U-4500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2233.0 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

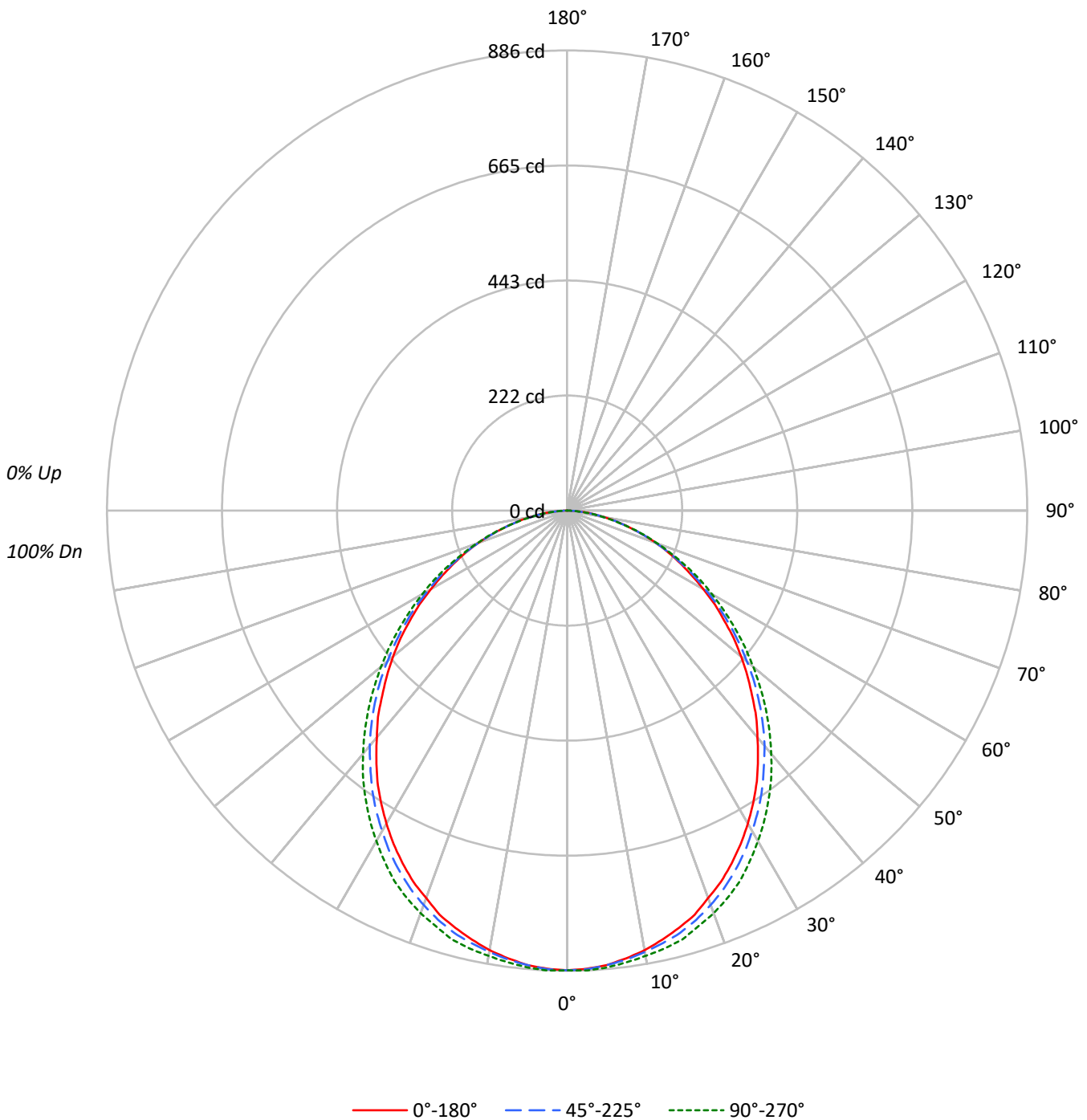
Input Watts (W): 19.251
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	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
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2382	2382	2382
5°	2373	2373	2385
10°	2349	2358	2379
15°	2317	2345	2382
20°	2273	2315	2363
25°	2225	2271	2337
30°	2162	2214	2283
35°	2092	2150	2224
40°	2002	2077	2147
45°	1915	1991	2059
50°	1832	1892	1958
55°	1734	1787	1849
60°	1630	1672	1732
65°	1531	1559	1609
70°	1428	1428	1454
75°	1274	1274	1274
80°	1122	1086	1086
85°	892	858	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	3.7
10°-20°	237.3	10.6
20°-30°	352.5	15.8
30°-40°	409.1	18.3
40°-50°	402.9	18.0
50°-60°	340.9	15.3
60°-70°	243.1	10.9
70°-80°	130.7	5.9
80°-90°	32.9	1.5
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°	673.3	30.2
0°-40°	1082.5	48.5
0°-60°	1826.3	81.8
0°-90°	2233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2233.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	885	885	885	885	885	
5°	878	878	878	882	883	83
15°	832	834	842	850	855	234
25°	749	752	765	779	787	345
35°	637	638	655	670	677	397
45°	503	507	523	536	541	389
55°	370	371	381	391	394	331
65°	240	240	245	249	253	239
75°	122	121	122	122	122	132
85°	29	28	28	26	26	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	885.1	885.1	885.1	885.1	885.1
2.5°	882.9	882.9	884.0	885.1	886.2
5°	878.4	878.4	878.4	881.8	882.9
7.5°	869.5	870.6	871.8	875.1	877.3
10°	859.5	860.6	862.8	868.4	870.6
12.5°	846.1	849.5	852.8	860.6	864.0
15°	831.7	833.9	841.7	849.5	855.1
17.5°	816.1	817.2	826.1	837.2	839.5
20°	793.8	797.2	808.3	819.4	825.0
22.5°	773.8	776.0	788.3	802.7	807.2
25°	749.3	751.5	764.9	779.3	787.1
27.5°	723.7	725.9	740.4	756.0	761.5
30°	695.8	698.1	712.5	729.2	734.8
32.5°	666.9	669.1	684.7	699.2	707.0
35°	636.8	637.9	654.6	670.2	676.9
37.5°	603.4	606.8	622.4	637.9	645.7
40°	570.0	573.4	591.2	605.7	611.2
42.5°	538.9	543.3	557.8	571.1	576.7
45°	503.2	506.6	523.3	535.5	541.1
47.5°	470.9	474.3	488.8	501.0	504.3
50°	437.5	439.8	452.0	463.2	467.6
52.5°	404.1	405.3	416.4	427.5	430.9
55°	369.6	370.7	380.8	390.8	394.1
57.5°	337.3	337.3	346.3	354.0	357.4
60°	302.8	302.8	310.6	318.4	321.8
62.5°	270.5	270.5	278.3	283.9	288.4
65°	240.5	240.5	244.9	249.4	252.7
67.5°	211.5	208.2	212.6	218.2	217.1
70°	181.5	178.1	181.5	183.7	184.8
72.5°	151.4	149.2	151.4	152.5	154.8
75°	122.5	121.4	122.5	122.5	122.5
77.5°	98.0	94.6	96.9	95.7	94.6
80°	72.4	71.3	70.1	69.0	70.1
82.5°	50.1	49.0	49.0	46.8	46.8
85°	28.9	27.8	27.8	25.6	25.6
87.5°	11.1	11.1	10.0	10.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)