

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: P296412

Luminaire Tested: **22RLN-LD5-25-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296412
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-L82765-W2A1-U-2700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2262.0 lumens
Efficiency: N/A
Efficacy: 119.8 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

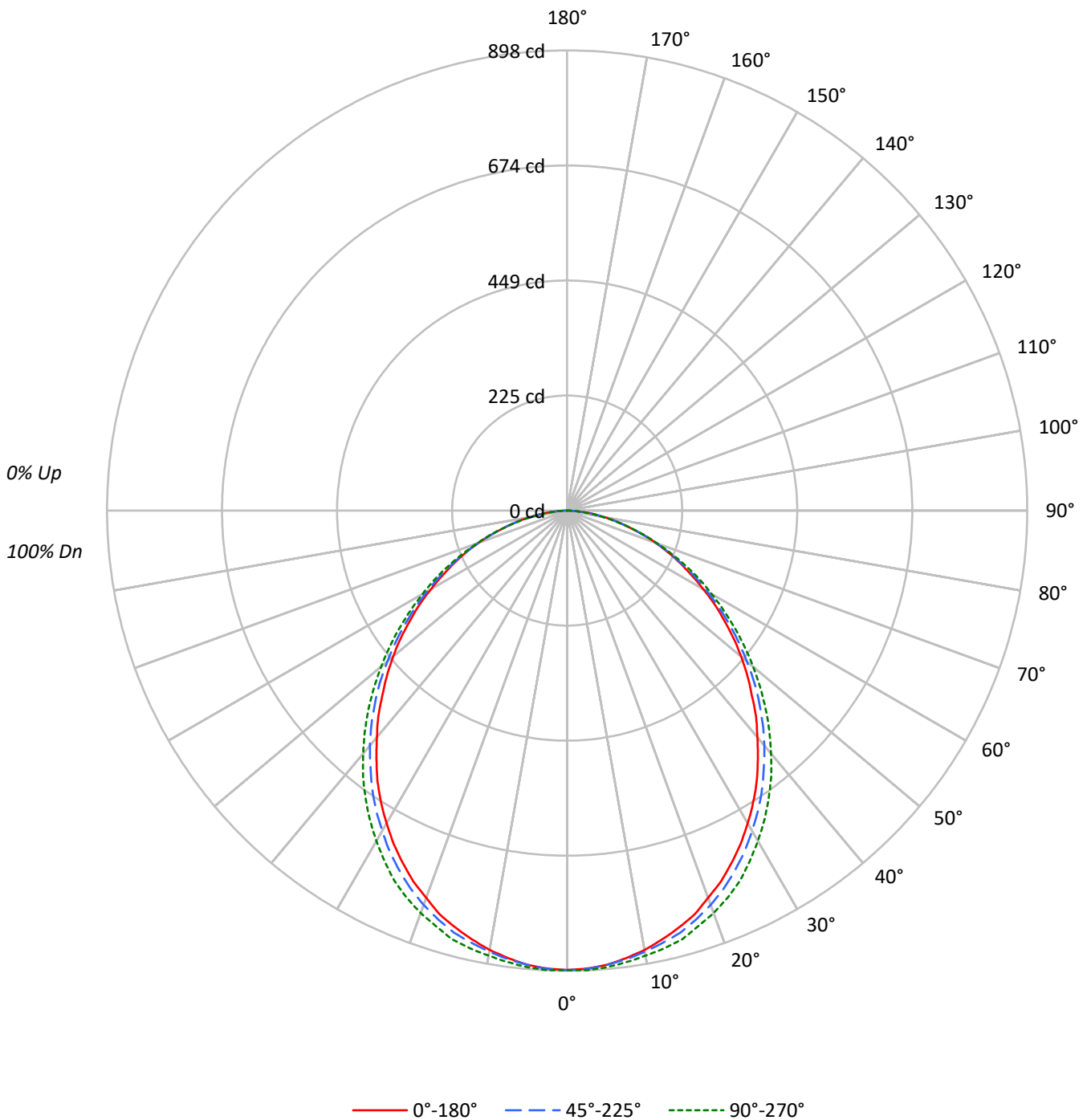
Input Watts (W): 18.879
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2413	2413	2413
5°	2404	2404	2416
10°	2379	2388	2410
15°	2347	2375	2413
20°	2303	2345	2393
25°	2254	2301	2368
30°	2190	2243	2313
35°	2119	2179	2253
40°	2028	2104	2175
45°	1940	2017	2086
50°	1855	1917	1983
55°	1757	1810	1873
60°	1651	1694	1754
65°	1551	1580	1630
70°	1446	1446	1473
75°	1290	1290	1290
80°	1136	1102	1102
85°	905	871	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	3.7
10°-20°	240.4	10.6
20°-30°	357.1	15.8
30°-40°	414.5	18.3
40°-50°	408.1	18.0
50°-60°	345.4	15.3
60°-70°	246.3	10.9
70°-80°	132.4	5.9
80°-90°	33.4	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°	682.1	30.2
0°-40°	1096.5	48.5
0°-60°	1850.0	81.8
0°-90°	2262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2262.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	890	890	890	893	894	84
15°	842	845	853	860	866	237
25°	759	761	775	790	797	349
35°	645	646	663	679	686	403
45°	510	513	530	542	548	394
55°	374	376	386	396	399	335
65°	244	244	248	253	256	242
75°	124	123	124	124	124	133
85°	29	28	28	26	26	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	896.6	896.6	896.6	896.6	896.6
2.5°	894.4	894.4	895.5	896.6	897.7
5°	889.8	889.8	889.8	893.2	894.4
7.5°	880.8	881.9	883.1	886.5	888.7
10°	870.7	871.8	874.1	879.7	881.9
12.5°	857.1	860.5	863.9	871.8	875.2
15°	842.5	844.7	852.6	860.5	866.2
17.5°	826.7	827.8	836.8	848.1	850.4
20°	804.1	807.5	818.8	830.1	835.7
22.5°	783.8	786.1	798.5	813.1	817.7
25°	759.0	761.3	774.8	789.5	797.4
27.5°	733.1	735.3	750.0	765.8	771.4
30°	704.9	707.1	721.8	738.7	744.4
32.5°	675.6	677.8	693.6	708.3	716.2
35°	645.1	646.2	663.2	678.9	685.7
37.5°	611.3	614.7	630.4	646.2	654.1
40°	577.4	580.8	598.9	613.5	619.2
42.5°	545.9	550.4	565.0	578.6	584.2
45°	509.8	513.2	530.1	542.5	548.1
47.5°	477.1	480.4	495.1	507.5	510.9
50°	443.2	445.5	457.9	469.2	473.7
52.5°	409.4	410.5	421.8	433.1	436.5
55°	374.4	375.6	385.7	395.9	399.2
57.5°	341.7	341.7	350.7	358.6	362.0
60°	306.8	306.8	314.7	322.6	325.9
62.5°	274.1	274.1	282.0	287.6	292.1
65°	243.6	243.6	248.1	252.6	256.0
67.5°	214.3	210.9	215.4	221.1	219.9
70°	183.8	180.4	183.8	186.1	187.2
72.5°	153.4	151.1	153.4	154.5	156.8
75°	124.1	122.9	124.1	124.1	124.1
77.5°	99.2	95.9	98.1	97.0	95.9
80°	73.3	72.2	71.1	69.9	71.1
82.5°	50.8	49.6	49.6	47.4	47.4
85°	29.3	28.2	28.2	25.9	25.9
87.5°	11.3	11.3	10.2	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)