

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: P296413

Luminaire Tested: **22RLN-LD5-25-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296413
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-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2327.0 lumens
Efficiency: N/A
Efficacy: 123.9 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

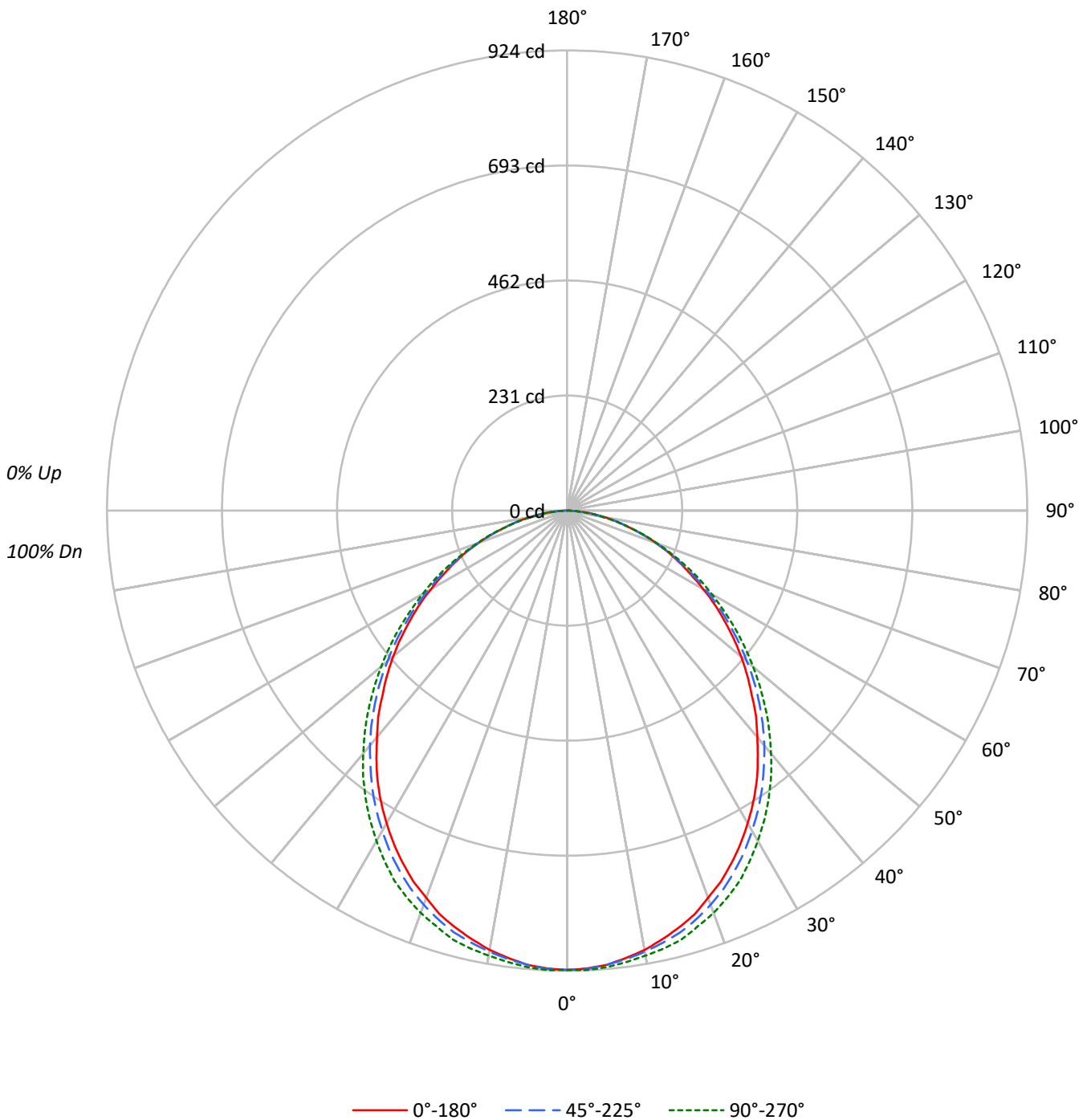
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2482	2482	2482
5°	2473	2473	2485
10°	2447	2457	2479
15°	2415	2444	2482
20°	2369	2412	2462
25°	2318	2367	2436
30°	2253	2307	2379
35°	2180	2241	2317
40°	2087	2164	2238
45°	1996	2075	2146
50°	1909	1972	2040
55°	1807	1862	1927
60°	1699	1742	1805
65°	1596	1625	1677
70°	1488	1488	1515
75°	1327	1327	1327
80°	1168	1133	1133
85°	932	895	824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	3.7
10°-20°	247.3	10.6
20°-30°	367.4	15.8
30°-40°	426.4	18.3
40°-50°	419.8	18.0
50°-60°	355.3	15.3
60°-70°	253.4	10.9
70°-80°	136.2	5.9
80°-90°	34.3	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°	701.7	30.2
0°-40°	1128.0	48.5
0°-60°	1903.1	81.8
0°-90°	2327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	922	922	922	922	922	
5°	915	915	915	919	920	87
15°	867	869	877	885	891	244
25°	781	783	797	812	820	359
35°	664	665	682	698	705	414
45°	524	528	545	558	564	405
55°	385	386	397	407	411	345
65°	251	251	255	260	263	249
75°	128	126	128	128	128	137
85°	30	29	29	27	27	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	922.4	922.4	922.4	922.4	922.4
2.5°	920.1	920.1	921.2	922.4	923.5
5°	915.4	915.4	915.4	918.9	920.1
7.5°	906.1	907.3	908.4	911.9	914.3
10°	895.7	896.8	899.2	905.0	907.3
12.5°	881.8	885.2	888.7	896.8	900.3
15°	866.7	869.0	877.1	885.2	891.0
17.5°	850.4	851.6	860.9	872.5	874.8
20°	827.2	830.7	842.3	853.9	859.7
22.5°	806.4	808.7	821.4	836.5	841.2
25°	780.8	783.1	797.1	812.2	820.3
27.5°	754.1	756.5	771.5	787.8	793.6
30°	725.1	727.5	742.5	759.9	765.7
32.5°	695.0	697.3	713.5	728.6	736.7
35°	663.6	664.8	682.2	698.5	705.4
37.5°	628.8	632.3	648.6	664.8	672.9
40°	594.0	597.5	616.1	631.2	637.0
42.5°	561.5	566.2	581.3	595.2	601.0
45°	524.4	527.9	545.3	558.1	563.9
47.5°	490.8	494.3	509.3	522.1	525.6
50°	456.0	458.3	471.0	482.6	487.3
52.5°	421.2	422.3	433.9	445.5	449.0
55°	385.2	386.4	396.8	407.2	410.7
57.5°	351.5	351.5	360.8	368.9	372.4
60°	315.6	315.6	323.7	331.8	335.3
62.5°	281.9	281.9	290.1	295.9	300.5
65°	250.6	250.6	255.2	259.9	263.4
67.5°	220.4	217.0	221.6	227.4	226.2
70°	189.1	185.6	189.1	191.4	192.6
72.5°	157.8	155.5	157.8	158.9	161.3
75°	127.6	126.5	127.6	127.6	127.6
77.5°	102.1	98.6	100.9	99.8	98.6
80°	75.4	74.3	73.1	71.9	73.1
82.5°	52.2	51.0	51.0	48.7	48.7
85°	30.2	29.0	29.0	26.7	26.7
87.5°	11.6	11.6	10.4	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)