

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: P296504

Luminaire Tested: **22RLN-LD5-25-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296504
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-6500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2339.0 lumens
Efficiency: N/A
Efficacy: 118.1 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

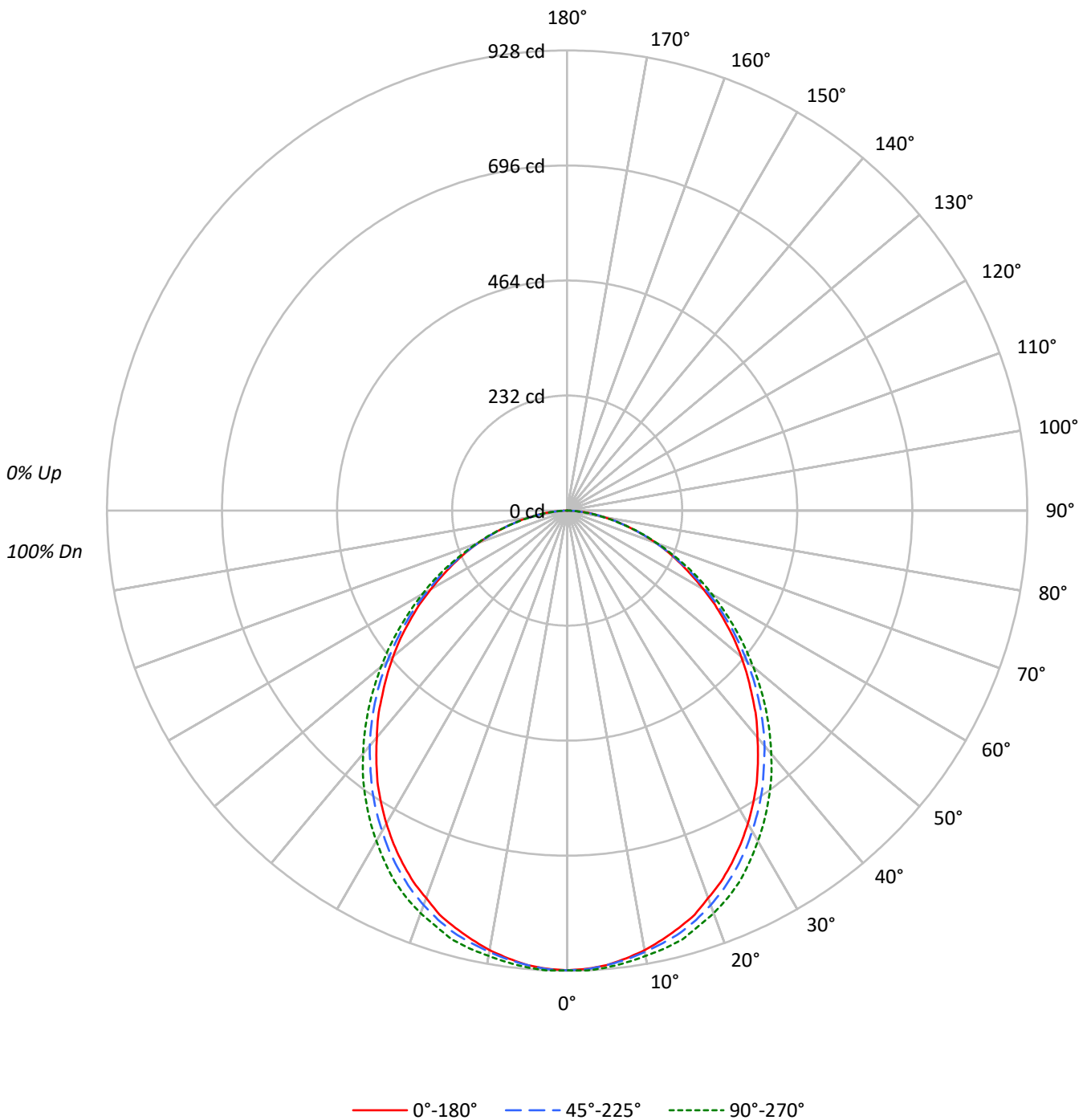
Input Watts (W): 19.809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2495	2495	2495
5°	2485	2485	2498
10°	2460	2470	2492
15°	2427	2456	2495
20°	2381	2425	2475
25°	2330	2379	2448
30°	2265	2319	2392
35°	2191	2253	2329
40°	2098	2175	2249
45°	2006	2086	2157
50°	1919	1982	2051
55°	1817	1871	1937
60°	1707	1751	1814
65°	1604	1634	1685
70°	1496	1496	1523
75°	1334	1334	1334
80°	1175	1139	1139
85°	936	902	827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	3.7
10°-20°	248.6	10.6
20°-30°	369.3	15.8
30°-40°	428.6	18.3
40°-50°	422.0	18.0
50°-60°	357.1	15.3
60°-70°	254.7	10.9
70°-80°	136.9	5.9
80°-90°	34.5	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°	705.3	30.2
0°-40°	1133.9	48.5
0°-60°	1913.0	81.8
0°-90°	2339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2339.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	920	920	920	924	925	87
15°	871	874	882	890	896	246
25°	785	787	801	816	824	361
35°	667	668	686	702	709	416
45°	527	531	548	561	567	408
55°	387	388	399	409	413	347
65°	252	252	257	261	265	250
75°	128	127	128	128	128	138
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°	927.1	927.1	927.1	927.1	927.1
2.5°	924.8	924.8	926.0	927.1	928.3
5°	920.1	920.1	920.1	923.6	924.8
7.5°	910.8	912.0	913.1	916.6	919.0
10°	900.3	901.5	903.8	909.6	912.0
12.5°	886.3	889.8	893.3	901.5	905.0
15°	871.2	873.5	881.6	889.8	895.6
17.5°	854.8	856.0	865.3	877.0	879.3
20°	831.5	835.0	846.7	858.3	864.2
22.5°	810.5	812.8	825.7	840.8	845.5
25°	784.9	787.2	801.2	816.3	824.5
27.5°	758.0	760.4	775.5	791.8	797.7
30°	728.9	731.2	746.4	763.9	769.7
32.5°	698.6	700.9	717.2	732.4	740.5
35°	667.1	668.2	685.7	702.1	709.0
37.5°	632.1	635.6	651.9	668.2	676.4
40°	597.1	600.6	619.3	634.4	640.2
42.5°	564.4	569.1	584.3	598.3	604.1
45°	527.1	530.6	548.1	560.9	566.8
47.5°	493.3	496.8	512.0	524.8	528.3
50°	458.3	460.6	473.5	485.1	489.8
52.5°	423.3	424.5	436.2	447.8	451.3
55°	387.2	388.3	398.8	409.3	412.8
57.5°	353.4	353.4	362.7	370.9	374.3
60°	317.2	317.2	325.4	333.5	337.0
62.5°	283.4	283.4	291.5	297.4	302.0
65°	251.9	251.9	256.6	261.2	264.7
67.5°	221.6	218.1	222.7	228.6	227.4
70°	190.1	186.6	190.1	192.4	193.6
72.5°	158.6	156.3	158.6	159.8	162.1
75°	128.3	127.1	128.3	128.3	128.3
77.5°	102.6	99.1	101.5	100.3	99.1
80°	75.8	74.6	73.5	72.3	73.5
82.5°	52.5	51.3	51.3	49.0	49.0
85°	30.3	29.2	29.2	26.8	26.8
87.5°	11.7	11.7	10.5	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)