

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: P296436

Luminaire Tested: **22RLN-LD5-35-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296436
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-LD5-35-UNV-L82765-W2A1-U-5500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3681.0 lumens
Efficiency: N/A
Efficacy: 128.5 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

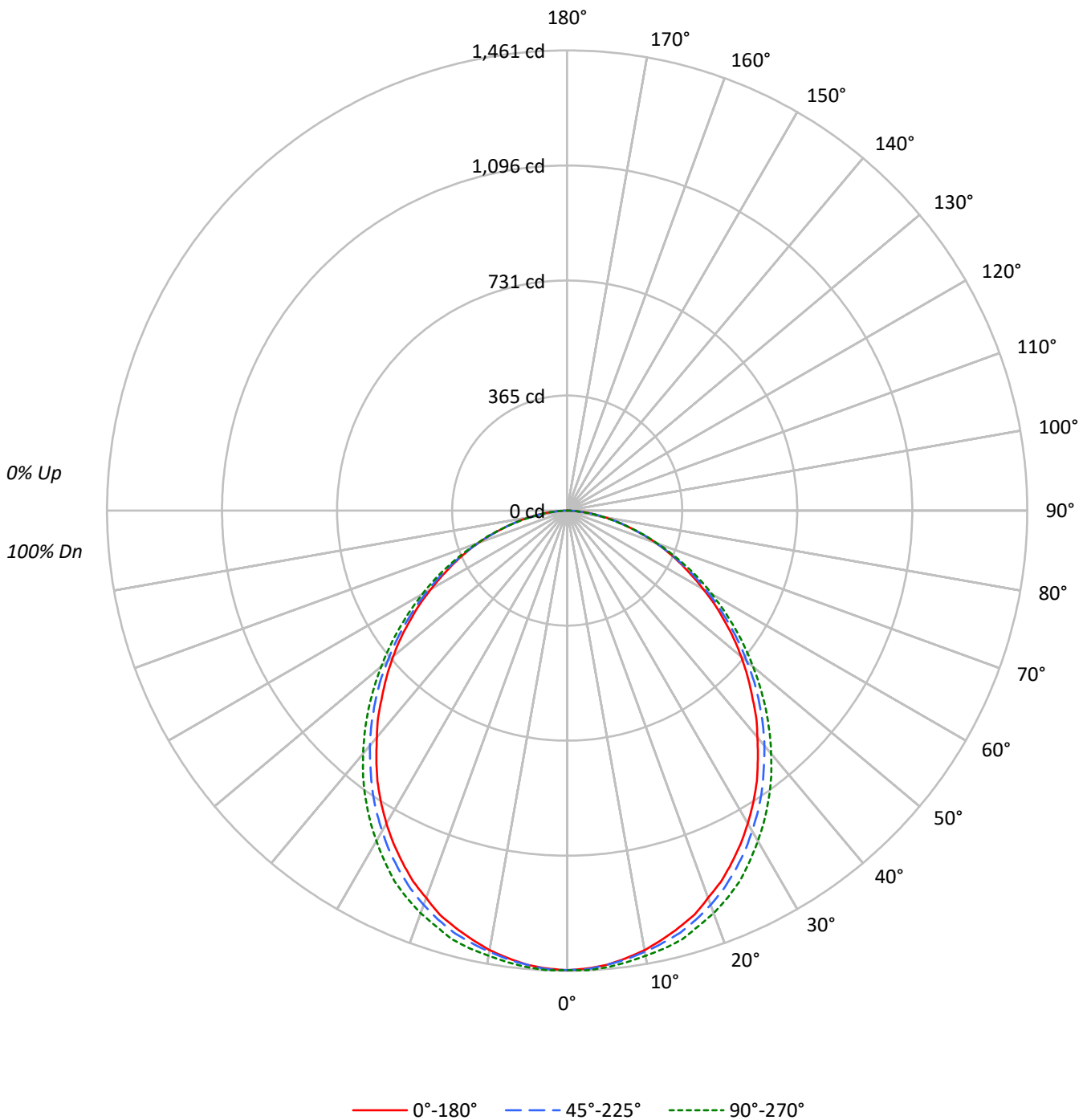
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3926	3926	3926
5°	3912	3912	3931
10°	3872	3887	3922
15°	3819	3865	3927
20°	3747	3816	3895
25°	3668	3744	3853
30°	3564	3650	3764
35°	3449	3545	3666
40°	3301	3423	3540
45°	3157	3283	3395
50°	3020	3119	3227
55°	2859	2945	3048
60°	2687	2756	2855
65°	2524	2571	2653
70°	2354	2354	2397
75°	2099	2099	2099
80°	1849	1791	1791
85°	1473	1417	1303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	3.7
10°-20°	391.2	10.6
20°-30°	581.1	15.8
30°-40°	674.5	18.3
40°-50°	664.1	18.0
50°-60°	562.0	15.3
60°-70°	400.8	10.9
70°-80°	215.4	5.9
80°-90°	54.3	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°	1110.0	30.2
0°-40°	1784.4	48.5
0°-60°	3010.5	81.8
0°-90°	3681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3681.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1459	1459	1459	1459	1459	
5°	1448	1448	1448	1454	1455	137
15°	1371	1375	1388	1400	1410	386
25°	1235	1239	1261	1285	1298	568
35°	1050	1052	1079	1105	1116	655
45°	830	835	863	883	892	641
55°	609	611	628	644	650	546
65°	396	396	404	411	417	393
75°	202	200	202	202	202	217
85°	48	46	46	42	42	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1459.1	1459.1	1459.1	1459.1	1459.1
2.5°	1455.4	1455.4	1457.2	1459.1	1460.9
5°	1448.1	1448.1	1448.1	1453.6	1455.4
7.5°	1433.4	1435.2	1437.0	1442.6	1446.2
10°	1416.9	1418.7	1422.4	1431.5	1435.2
12.5°	1394.8	1400.3	1405.8	1418.7	1424.2
15°	1371.0	1374.6	1387.5	1400.3	1409.5
17.5°	1345.3	1347.1	1361.8	1380.1	1383.8
20°	1308.6	1314.1	1332.4	1350.8	1360.0
22.5°	1275.5	1279.2	1299.4	1323.3	1330.6
25°	1235.2	1238.8	1260.9	1284.7	1297.6
27.5°	1192.9	1196.6	1220.5	1246.2	1255.3
30°	1147.1	1150.7	1174.6	1202.1	1211.3
32.5°	1099.3	1103.0	1128.7	1152.6	1165.4
35°	1049.8	1051.6	1079.2	1104.9	1115.9
37.5°	994.7	1000.2	1025.9	1051.6	1064.5
40°	939.7	945.2	974.5	998.4	1007.6
42.5°	888.3	895.6	919.5	941.5	950.7
45°	829.6	835.1	862.6	882.8	892.0
47.5°	776.3	781.8	805.7	825.9	831.4
50°	721.3	724.9	745.1	763.5	770.8
52.5°	666.2	668.1	686.4	704.8	710.3
55°	609.3	611.2	627.7	644.2	649.7
57.5°	556.1	556.1	570.8	583.6	589.1
60°	499.2	499.2	512.1	524.9	530.4
62.5°	446.0	446.0	458.8	468.0	475.3
65°	396.4	396.4	403.8	411.1	416.6
67.5°	348.7	343.2	350.5	359.7	357.9
70°	299.2	293.6	299.2	302.8	304.7
72.5°	249.6	245.9	249.6	251.4	255.1
75°	201.9	200.0	201.9	201.9	201.9
77.5°	161.5	156.0	159.7	157.8	156.0
80°	119.3	117.5	115.6	113.8	115.6
82.5°	82.6	80.8	80.8	77.1	77.1
85°	47.7	45.9	45.9	42.2	42.2
87.5°	18.4	18.4	16.5	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)