

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: P296390

Luminaire Tested: **22RLN-LD5-35-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296390
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-L83050-W2A1-U-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3717.0 lumens
Efficiency: N/A
Efficacy: 130.2 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

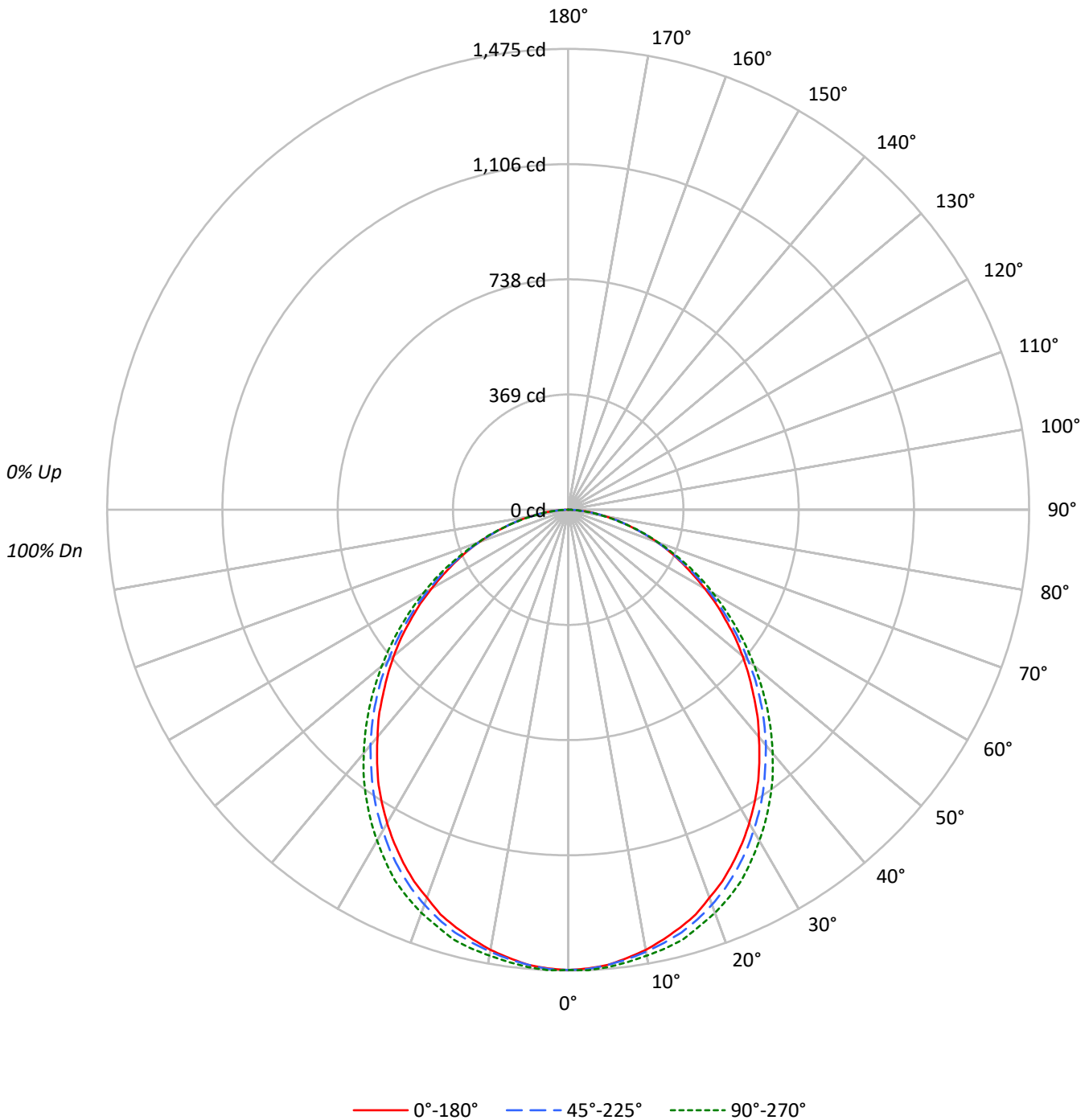
Input Watts (W): 28.551
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3965	3965	3965
5°	3950	3950	3970
10°	3909	3925	3960
15°	3857	3903	3965
20°	3784	3853	3933
25°	3703	3780	3890
30°	3599	3686	3801
35°	3483	3580	3702
40°	3333	3457	3574
45°	3188	3315	3428
50°	3049	3150	3259
55°	2887	2974	3078
60°	2713	2783	2883
65°	2549	2596	2679
70°	2377	2377	2420
75°	2120	2120	2120
80°	1867	1810	1810
85°	1488	1430	1315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	3.7
10°-20°	395.0	10.6
20°-30°	586.8	15.8
30°-40°	681.1	18.3
40°-50°	670.6	18.0
50°-60°	567.5	15.3
60°-70°	404.7	10.9
70°-80°	217.5	5.9
80°-90°	54.8	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°	1120.8	30.2
0°-40°	1801.9	48.5
0°-60°	3040.0	81.8
0°-90°	3717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3717.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1473	1473	1473	1473	1473	
5°	1462	1462	1462	1468	1470	139
15°	1384	1388	1401	1414	1423	390
25°	1247	1251	1273	1297	1310	574
35°	1060	1062	1090	1116	1127	661
45°	838	843	871	891	901	648
55°	615	617	634	650	656	551
65°	400	400	408	415	421	397
75°	204	202	204	204	204	219
85°	48	46	46	43	43	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1473.3	1473.3	1473.3	1473.3	1473.3
2.5°	1469.6	1469.6	1471.5	1473.3	1475.2
5°	1462.2	1462.2	1462.2	1467.8	1469.6
7.5°	1447.4	1449.2	1451.1	1456.7	1460.4
10°	1430.7	1432.6	1436.3	1445.5	1449.2
12.5°	1408.5	1414.0	1419.6	1432.6	1438.1
15°	1384.4	1388.1	1401.1	1414.0	1423.3
17.5°	1358.4	1360.3	1375.1	1393.6	1397.4
20°	1321.4	1326.9	1345.5	1364.0	1373.3
22.5°	1288.0	1291.7	1312.1	1336.2	1343.6
25°	1247.2	1250.9	1273.2	1297.3	1310.3
27.5°	1204.6	1208.3	1232.4	1258.4	1267.6
30°	1158.3	1162.0	1186.1	1213.9	1223.1
32.5°	1110.1	1113.8	1139.8	1163.8	1176.8
35°	1060.1	1061.9	1089.7	1115.7	1126.8
37.5°	1004.5	1010.0	1036.0	1061.9	1074.9
40°	948.9	954.4	984.1	1008.2	1017.4
42.5°	897.0	904.4	928.5	950.7	960.0
45°	837.7	843.2	871.0	891.4	900.7
47.5°	783.9	789.5	813.6	834.0	839.5
50°	728.3	732.0	752.4	771.0	778.4
52.5°	672.7	674.6	693.1	711.6	717.2
55°	615.3	617.1	633.8	650.5	656.1
57.5°	561.5	561.5	576.4	589.3	594.9
60°	504.1	504.1	517.1	530.0	535.6
62.5°	450.3	450.3	463.3	472.6	480.0
65°	400.3	400.3	407.7	415.1	420.7
67.5°	352.1	346.6	354.0	363.2	361.4
70°	302.1	296.5	302.1	305.8	307.6
72.5°	252.0	248.3	252.0	253.9	257.6
75°	203.9	202.0	203.9	203.9	203.9
77.5°	163.1	157.5	161.2	159.4	157.5
80°	120.5	118.6	116.8	114.9	116.8
82.5°	83.4	81.5	81.5	77.8	77.8
85°	48.2	46.3	46.3	42.6	42.6
87.5°	18.5	18.5	16.7	16.7	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)