

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: P296441

Luminaire Tested: **22RLN-LD5-40-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296441
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-LD5-40-UNV-L82765-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3910.9 lumens
Efficiency: N/A
Efficacy: 121.2 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

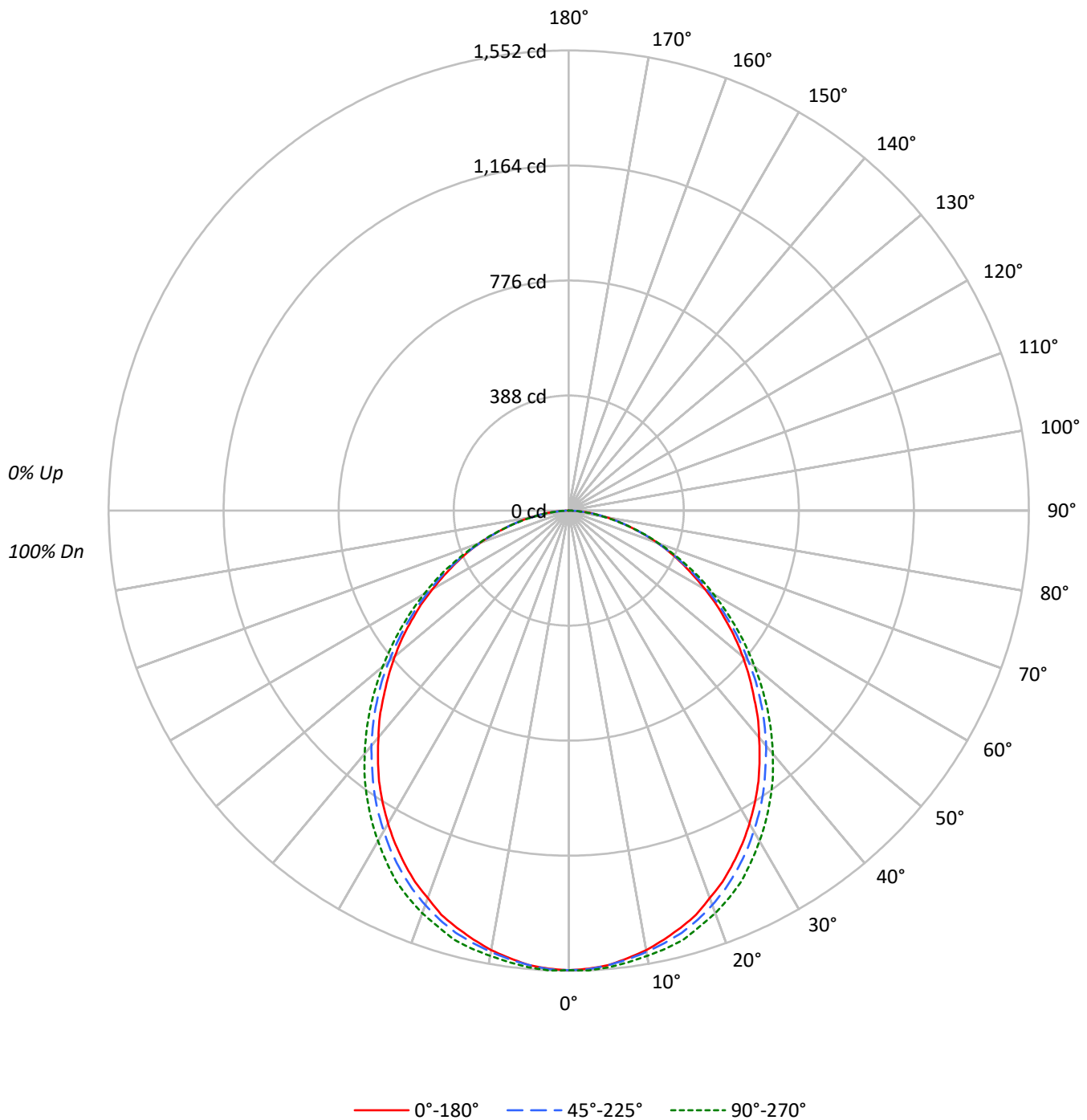
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	102	99	95		98	95	92		94	92	90		91	89	87
2	100	92	85	80	97	90	84	79		86	81	77		83	79	75		80	77	74
3	91	81	73	67	89	79	72	66		77	70	65		74	68	64		71	67	63
4	84	72	64	57	81	71	63	57		68	61	56		66	60	55		64	59	54
5	77	65	56	49	75	64	55	49		61	54	49		59	53	48		58	52	48
6	71	58	50	43	70	57	49	43		56	48	43		54	47	42		52	47	42
7	66	53	44	38	65	52	44	38		51	43	38		49	43	38		48	42	38
8	62	49	40	34	60	48	40	34		47	39	34		45	39	34		44	38	34
9	58	45	37	31	56	44	36	31		43	36	31		42	35	31		41	35	31
10	54	41	33	28	53	41	33	28		40	33	28		39	32	28		38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4172	4172	4172
5°	4156	4156	4177
10°	4113	4129	4167
15°	4058	4107	4172
20°	3981	4054	4138
25°	3896	3977	4093
30°	3787	3878	3999
35°	3664	3767	3895
40°	3507	3637	3760
45°	3354	3488	3607
50°	3208	3314	3429
55°	3037	3129	3239
60°	2855	2928	3033
65°	2682	2732	2818
70°	2500	2500	2547
75°	2230	2230	2230
80°	1963	1903	1903
85°	1565	1504	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	3.7
10°-20°	415.7	10.6
20°-30°	617.4	15.8
30°-40°	716.6	18.3
40°-50°	705.6	18.0
50°-60°	597.1	15.3
60°-70°	425.8	10.9
70°-80°	228.8	5.9
80°-90°	57.6	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°	1179.3	30.2
0°-40°	1895.9	48.5
0°-60°	3198.6	81.8
0°-90°	3910.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3910.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1550	1550	1550	1550	1550	
5°	1538	1538	1538	1544	1546	146
15°	1457	1460	1474	1488	1498	411
25°	1312	1316	1340	1365	1379	604
35°	1115	1117	1147	1174	1186	696
45°	881	887	916	938	948	681
55°	647	649	667	684	690	580
65°	421	421	429	437	443	418
75°	214	212	214	214	214	230
85°	51	49	49	45	45	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1550.2	1550.2	1550.2	1550.2	1550.2
2.5°	1546.3	1546.3	1548.3	1550.2	1552.2
5°	1538.5	1538.5	1538.5	1544.4	1546.3
7.5°	1522.9	1524.9	1526.8	1532.7	1536.6
10°	1505.4	1507.3	1511.2	1521.0	1524.9
12.5°	1482.0	1487.8	1493.7	1507.3	1513.2
15°	1456.6	1460.5	1474.2	1487.8	1497.6
17.5°	1429.3	1431.3	1446.9	1466.4	1470.3
20°	1390.3	1396.2	1415.7	1435.2	1444.9
22.5°	1355.2	1359.1	1380.6	1405.9	1413.7
25°	1312.3	1316.2	1339.6	1365.0	1378.6
27.5°	1267.5	1271.4	1296.7	1324.0	1333.8
30°	1218.7	1222.6	1248.0	1277.2	1287.0
32.5°	1168.0	1171.9	1199.2	1224.6	1238.2
35°	1115.4	1117.3	1146.6	1173.9	1185.6
37.5°	1056.9	1062.7	1090.0	1117.3	1131.0
40°	998.4	1004.2	1035.4	1060.8	1070.5
42.5°	943.8	951.6	976.9	1000.3	1010.1
45°	881.4	887.2	916.5	937.9	947.7
47.5°	824.8	830.7	856.0	877.5	883.3
50°	766.3	770.2	791.7	811.2	819.0
52.5°	707.8	709.8	729.3	748.8	754.6
55°	647.4	649.3	666.9	684.4	690.3
57.5°	590.8	590.8	606.4	620.1	625.9
60°	530.4	530.4	544.0	557.7	563.5
62.5°	473.8	473.8	487.5	497.2	505.0
65°	421.2	421.2	429.0	436.8	442.6
67.5°	370.5	364.6	372.4	382.2	380.2
70°	317.8	312.0	317.8	321.7	323.7
72.5°	265.2	261.3	265.2	267.1	271.0
75°	214.5	212.5	214.5	214.5	214.5
77.5°	171.6	165.7	169.6	167.7	165.7
80°	126.7	124.8	122.8	120.9	122.8
82.5°	87.7	85.8	85.8	81.9	81.9
85°	50.7	48.7	48.7	44.8	44.8
87.5°	19.5	19.5	17.5	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)