

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: P296656

Luminaire Tested: **22RLN-LD5-20-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-20-RDP-UNV-L92765-W2A1-U-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1326.0 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

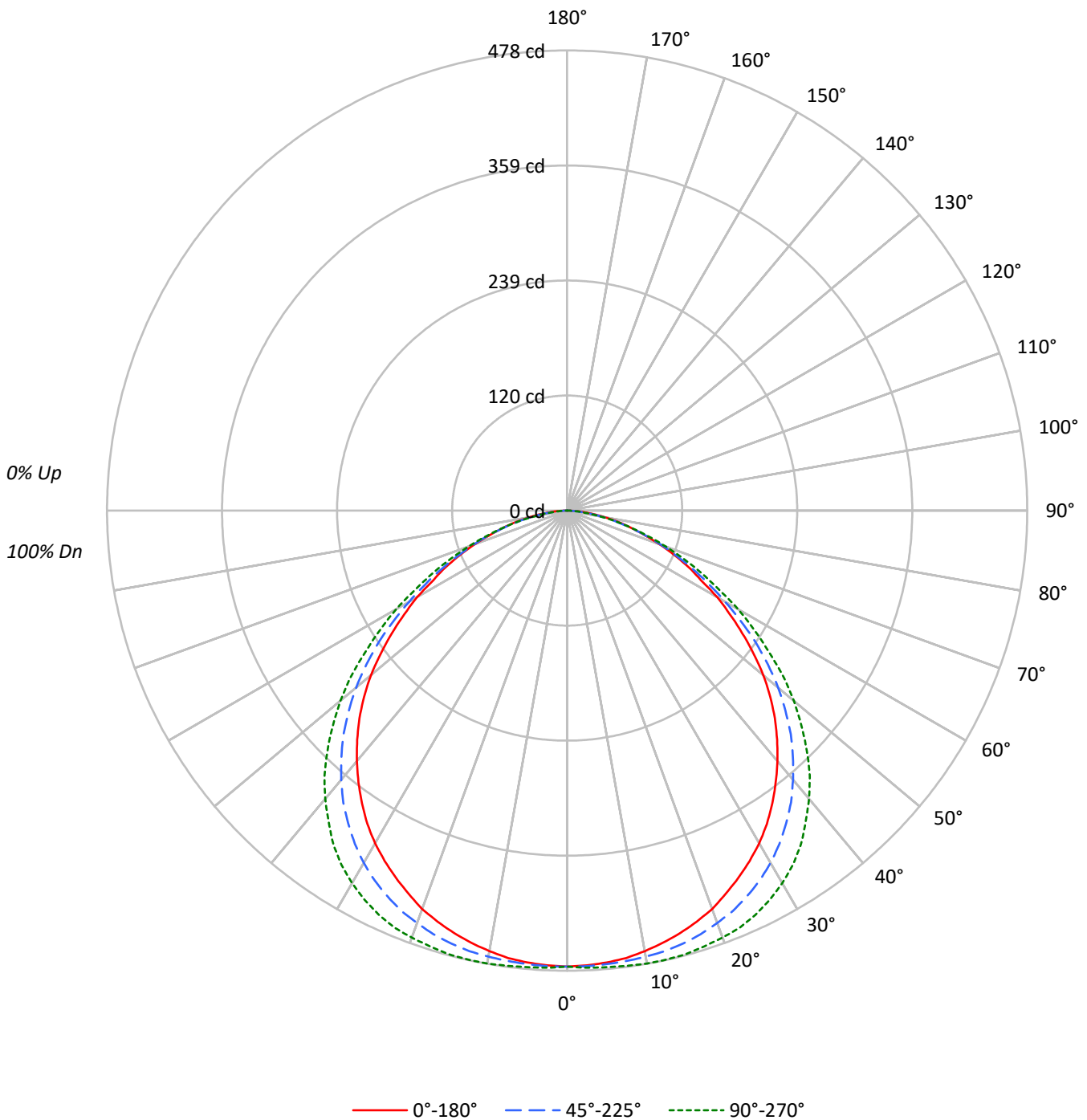
Input Watts (W): 15.252
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296656

CATALOG NUMBER: 22RLN-LD5-20-RDP-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P296656

CATALOG NUMBER: 22RLN-LD5-20-RDP-UNV-L92765-W2A1-U-3000K

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	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	103	99	96	98	95	93	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	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1275	1275	1275
5°	1273	1277	1286
10°	1270	1285	1305
15°	1265	1297	1329
20°	1261	1305	1352
25°	1250	1312	1375
30°	1240	1313	1389
35°	1220	1303	1391
40°	1194	1282	1373
45°	1161	1250	1340
50°	1114	1199	1287
55°	1042	1123	1199
60°	969	1021	1104
65°	888	919	981
70°	804	817	855
75°	708	691	716
80°	615	566	541
85°	500	377	324



TEST NUMBER: P296656

CATALOG NUMBER: 22RLN-LD5-20-RDP-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	3.4
10°-20°	131.5	9.9
20°-30°	203.8	15.4
30°-40°	248.0	18.7
40°-50°	252.6	19.0
50°-60°	213.0	16.1
60°-70°	144.1	10.9
70°-80°	72.0	5.4
80°-90°	16.0	1.2
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°	380.4	28.7
0°-40°	628.4	47.4
0°-60°	1093.9	82.5
0°-90°	1326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1326.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	474	474	474	474	474	
5°	471	472	473	475	476	45
15°	454	457	466	474	477	128
25°	421	427	442	457	463	194
35°	372	380	397	415	423	232
45°	305	311	328	346	352	235
55°	222	226	239	251	256	199
65°	140	137	144	151	154	138
75°	68	66	66	67	69	73
85°	16	14	12	10	10	19
90°	0	0	0	0	0	



TEST NUMBER: P296656

CATALOG NUMBER: 22RLN-LD5-20-RDP-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	473.7	473.7	473.7	473.7	473.7
2.5°	472.8	472.8	473.7	474.5	475.3
5°	471.2	472.0	472.8	475.3	476.1
7.5°	468.8	469.6	472.0	475.3	476.9
10°	464.7	466.4	470.4	475.3	477.7
12.5°	459.9	462.3	468.8	474.5	477.7
15°	454.2	457.4	465.5	473.7	476.9
17.5°	447.7	451.8	461.5	470.4	474.5
20°	440.4	445.3	455.8	467.2	472.0
22.5°	430.7	437.2	450.1	463.1	468.8
25°	420.9	427.4	442.0	456.6	463.1
27.5°	410.4	417.7	433.1	449.3	455.8
30°	399.0	405.5	422.6	439.6	446.9
32.5°	386.1	392.5	410.4	428.2	436.3
35°	371.5	379.6	396.6	415.3	423.4
37.5°	356.0	363.3	382.0	399.8	407.1
40°	339.8	347.1	365.0	383.6	390.9
42.5°	322.8	330.1	347.1	365.0	373.1
45°	305.0	310.6	328.5	345.5	352.0
47.5°	286.3	290.4	307.4	323.6	330.1
50°	266.0	270.1	286.3	300.9	307.4
52.5°	244.1	247.4	262.8	275.8	283.1
55°	222.2	225.5	239.3	250.6	255.5
57.5°	200.3	202.0	214.1	225.5	230.3
60°	180.1	180.1	189.8	198.7	205.2
62.5°	156.5	159.0	166.3	175.2	177.6
65°	139.5	137.1	144.4	150.9	154.1
67.5°	120.0	118.4	123.3	129.0	130.6
70°	102.2	99.8	103.8	107.1	108.7
72.5°	83.5	82.7	84.3	86.8	87.6
75°	68.1	65.7	66.5	67.3	68.9
77.5°	54.3	50.3	51.1	50.3	51.1
80°	39.7	36.5	36.5	35.7	34.9
82.5°	26.8	25.1	23.5	21.9	21.1
85°	16.2	13.8	12.2	10.5	10.5
87.5°	6.5	4.9	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)