

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: P296404

Luminaire Tested: **22RLN-LD5-20-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296404
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-LD5-20-UNV-L82765-W2A1-U-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1894.0 lumens
Efficiency: N/A
Efficacy: 123.4 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

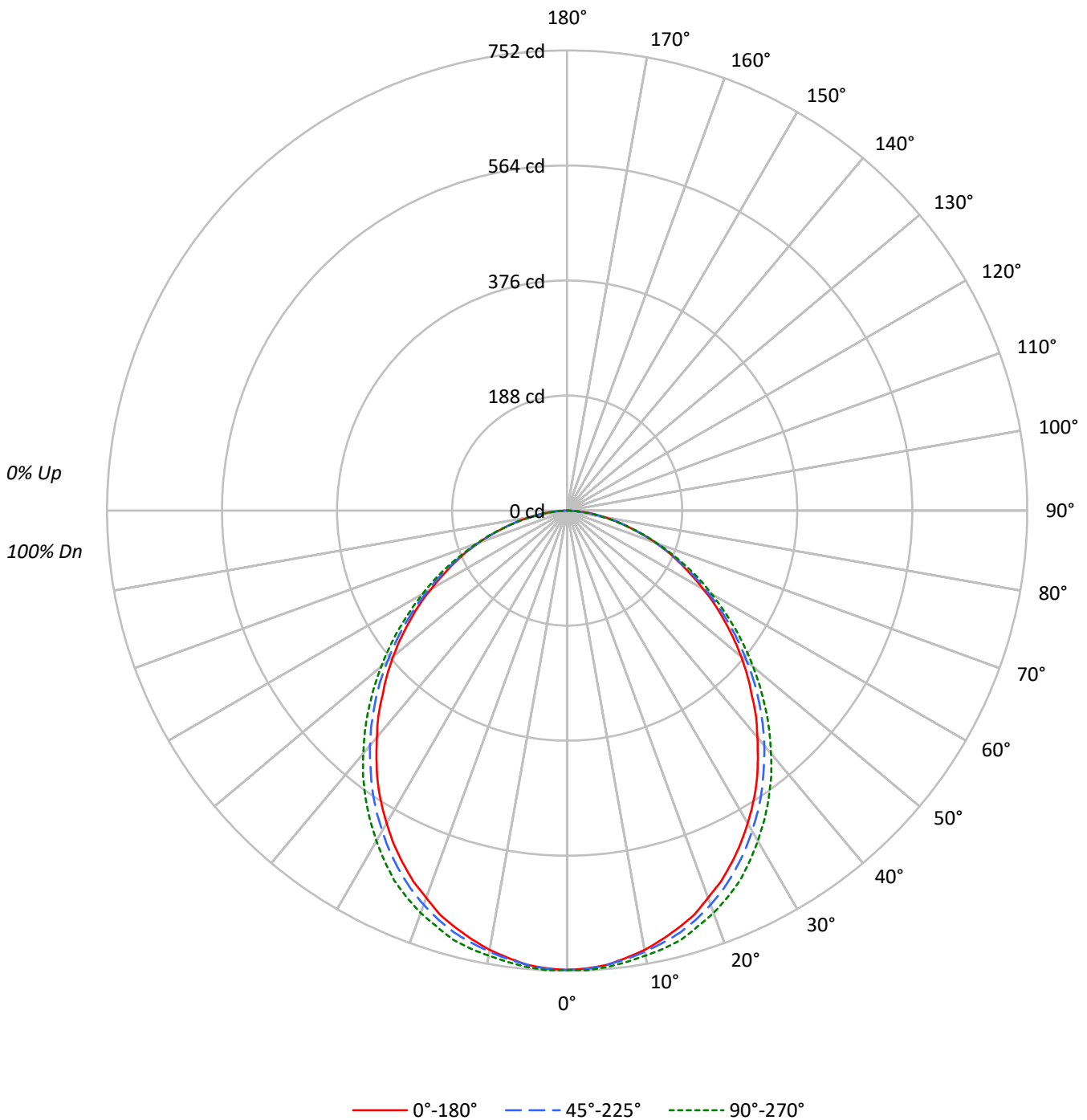
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2020	2020	2020
5°	2013	2013	2023
10°	1992	2000	2018
15°	1965	1989	2020
20°	1928	1963	2004
25°	1887	1926	1982
30°	1834	1878	1937
35°	1775	1824	1886
40°	1698	1761	1821
45°	1624	1689	1746
50°	1554	1605	1660
55°	1471	1515	1568
60°	1383	1418	1469
65°	1299	1323	1365
70°	1211	1211	1234
75°	1080	1080	1080
80°	951	922	922
85°	760	729	670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	3.7
10°-20°	201.3	10.6
20°-30°	299.0	15.8
30°-40°	347.0	18.3
40°-50°	341.7	18.0
50°-60°	289.2	15.3
60°-70°	206.2	10.9
70°-80°	110.8	5.9
80°-90°	27.9	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°	571.1	30.2
0°-40°	918.1	48.5
0°-60°	1549.0	81.8
0°-90°	1894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	751	751	751	751	751	
5°	745	745	745	748	749	71
15°	705	707	714	720	725	199
25°	636	637	649	661	668	292
35°	540	541	555	568	574	337
45°	427	430	444	454	459	330
55°	314	314	323	332	334	281
65°	204	204	208	212	214	202
75°	104	103	104	104	104	112
85°	25	24	24	22	22	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	750.7	750.7	750.7	750.7	750.7
2.5°	748.9	748.9	749.8	750.7	751.7
5°	745.1	745.1	745.1	747.9	748.9
7.5°	737.5	738.5	739.4	742.2	744.1
10°	729.0	730.0	731.9	736.6	738.5
12.5°	717.7	720.5	723.4	730.0	732.8
15°	705.4	707.3	713.9	720.5	725.2
17.5°	692.2	693.1	700.7	710.1	712.0
20°	673.3	676.1	685.6	695.0	699.7
22.5°	656.3	658.2	668.6	680.9	684.6
25°	635.5	637.4	648.8	661.0	667.6
27.5°	613.8	615.7	628.0	641.2	645.9
30°	590.2	592.1	604.4	618.5	623.3
32.5°	565.7	567.5	580.8	593.0	599.6
35°	540.2	541.1	555.3	568.5	574.2
37.5°	511.8	514.7	527.9	541.1	547.7
40°	483.5	486.3	501.4	513.7	518.4
42.5°	457.1	460.8	473.1	484.4	489.2
45°	426.8	429.7	443.8	454.2	458.9
47.5°	399.5	402.3	414.6	424.9	427.8
50°	371.1	373.0	383.4	392.8	396.6
52.5°	342.8	343.7	353.2	362.6	365.5
55°	313.5	314.5	323.0	331.5	334.3
57.5°	286.1	286.1	293.7	300.3	303.1
60°	256.9	256.9	263.5	270.1	272.9
62.5°	229.5	229.5	236.1	240.8	244.6
65°	204.0	204.0	207.8	211.5	214.4
67.5°	179.4	176.6	180.4	185.1	184.1
70°	153.9	151.1	153.9	155.8	156.8
72.5°	128.4	126.5	128.4	129.4	131.3
75°	103.9	102.9	103.9	103.9	103.9
77.5°	83.1	80.3	82.2	81.2	80.3
80°	61.4	60.4	59.5	58.5	59.5
82.5°	42.5	41.6	41.6	39.7	39.7
85°	24.6	23.6	23.6	21.7	21.7
87.5°	9.4	9.4	8.5	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)