

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: P296408

Luminaire Tested: **22RLN-LD5-20-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296408
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-5000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2065.0 lumens
Efficiency: N/A
Efficacy: 130.6 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

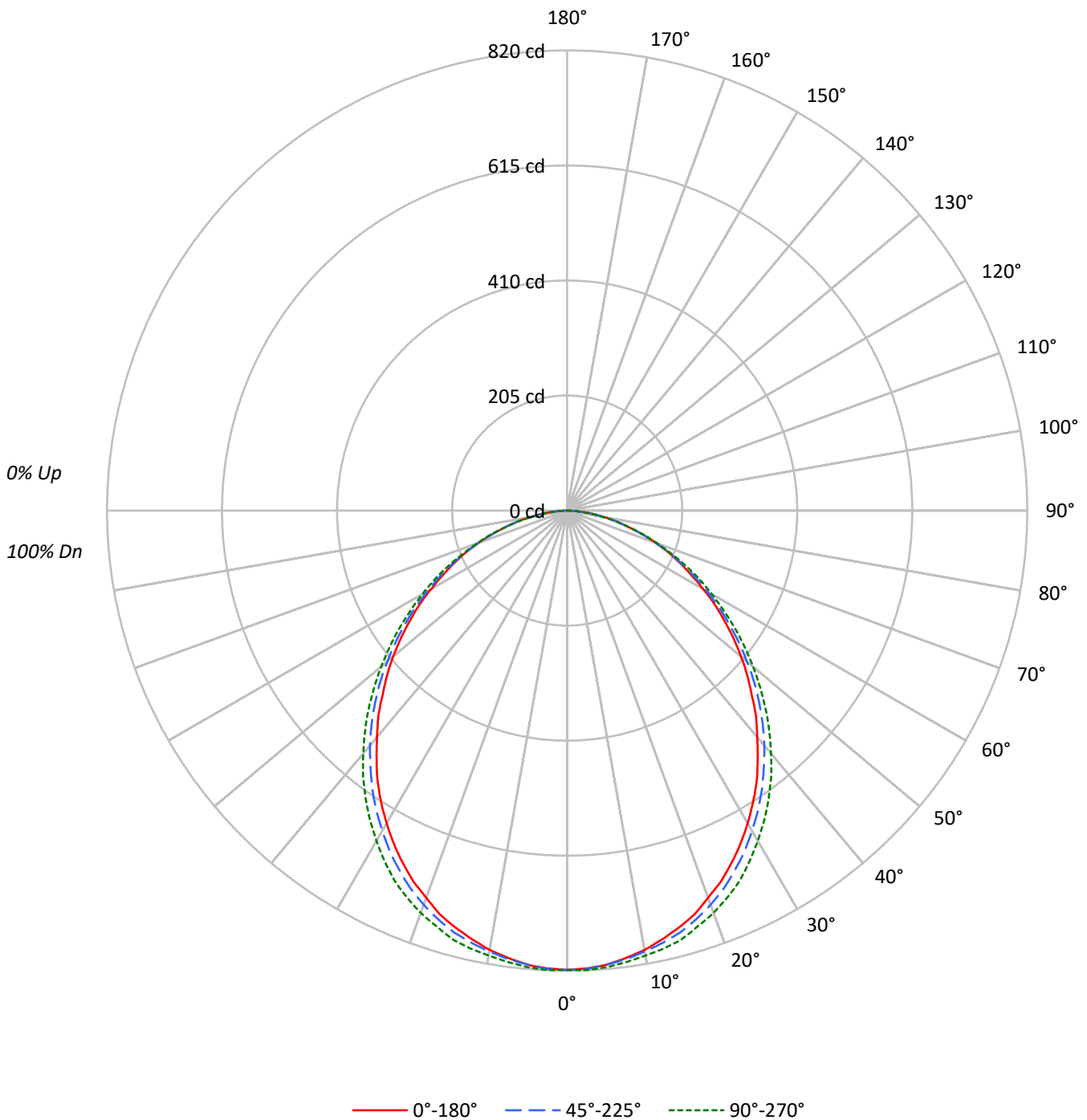
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2203	2203	2203
5°	2194	2194	2206
10°	2172	2180	2200
15°	2143	2169	2203
20°	2102	2141	2185
25°	2057	2100	2161
30°	2000	2047	2111
35°	1935	1989	2056
40°	1852	1920	1985
45°	1771	1842	1904
50°	1694	1750	1810
55°	1604	1652	1710
60°	1507	1546	1602
65°	1416	1442	1488
70°	1320	1320	1345
75°	1178	1178	1178
80°	1037	1006	1006
85°	827	794	732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	3.7
10°-20°	219.5	10.6
20°-30°	326.0	15.8
30°-40°	378.4	18.3
40°-50°	372.6	18.0
50°-60°	315.3	15.3
60°-70°	224.8	10.9
70°-80°	120.8	5.9
80°-90°	30.5	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°	622.7	30.2
0°-40°	1001.0	48.5
0°-60°	1688.9	81.8
0°-90°	2065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2065.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	818	818	818	818	818	
5°	812	812	812	815	816	77
15°	769	771	778	786	791	217
25°	693	695	707	721	728	319
35°	589	590	605	620	626	367
45°	465	468	484	495	500	360
55°	342	343	352	361	364	306
65°	222	222	226	231	234	221
75°	113	112	113	113	113	122
85°	27	26	26	24	24	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	818.5	818.5	818.5	818.5	818.5
2.5°	816.5	816.5	817.5	818.5	819.6
5°	812.3	812.3	812.3	815.4	816.5
7.5°	804.1	805.1	806.2	809.3	811.3
10°	794.8	795.9	797.9	803.1	805.1
12.5°	782.5	785.6	788.7	795.9	799.0
15°	769.1	771.2	778.4	785.6	790.7
17.5°	754.7	755.7	764.0	774.2	776.3
20°	734.1	737.2	747.5	757.8	762.9
22.5°	715.6	717.6	728.9	742.3	746.4
25°	692.9	695.0	707.3	720.7	727.9
27.5°	669.2	671.3	684.7	699.1	704.2
30°	643.5	645.6	658.9	674.4	679.5
32.5°	616.7	618.8	633.2	646.6	653.8
35°	588.9	590.0	605.4	619.8	626.0
37.5°	558.0	561.1	575.5	590.0	597.2
40°	527.1	530.2	546.7	560.1	565.2
42.5°	498.3	502.4	515.8	528.2	533.3
45°	465.4	468.5	483.9	495.2	500.4
47.5°	435.5	438.6	452.0	463.3	466.4
50°	404.6	406.7	418.0	428.3	432.4
52.5°	373.7	374.8	385.1	395.4	398.4
55°	341.8	342.9	352.1	361.4	364.5
57.5°	312.0	312.0	320.2	327.4	330.5
60°	280.0	280.0	287.3	294.5	297.6
62.5°	250.2	250.2	257.4	262.5	266.7
65°	222.4	222.4	226.5	230.6	233.7
67.5°	195.6	192.5	196.7	201.8	200.8
70°	167.8	164.7	167.8	169.9	170.9
72.5°	140.0	138.0	140.0	141.1	143.1
75°	113.3	112.2	113.3	113.3	113.3
77.5°	90.6	87.5	89.6	88.5	87.5
80°	66.9	65.9	64.9	63.8	64.9
82.5°	46.3	45.3	45.3	43.2	43.2
85°	26.8	25.7	25.7	23.7	23.7
87.5°	10.3	10.3	9.3	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)