

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: P296409

Luminaire Tested: **22RLN-LD5-20-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296409
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-5500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2086.0 lumens
Efficiency: N/A
Efficacy: 131.2 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

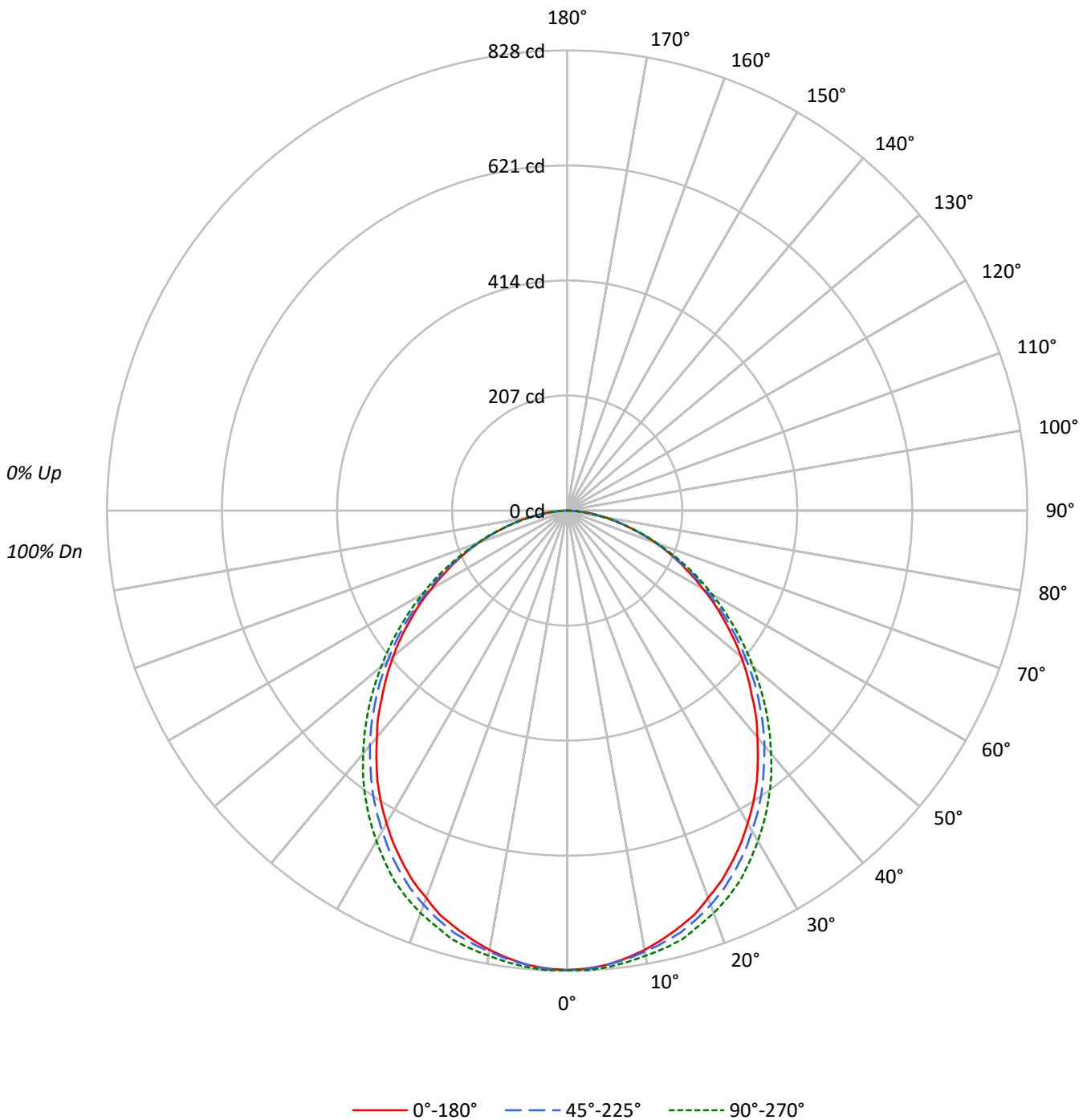
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36					36			
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2225	2225	2225
5°	2217	2217	2228
10°	2194	2202	2222
15°	2164	2191	2225
20°	2124	2162	2207
25°	2078	2121	2183
30°	2020	2068	2133
35°	1954	2009	2077
40°	1871	1940	2006
45°	1789	1860	1924
50°	1711	1768	1829
55°	1620	1669	1727
60°	1523	1562	1618
65°	1431	1457	1503
70°	1334	1334	1358
75°	1189	1189	1189
80°	1048	1015	1015
85°	834	803	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	3.7
10°-20°	221.7	10.6
20°-30°	329.3	15.8
30°-40°	382.2	18.3
40°-50°	376.3	18.0
50°-60°	318.5	15.3
60°-70°	227.1	10.9
70°-80°	122.1	5.9
80°-90°	30.8	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°	629.0	30.2
0°-40°	1011.2	48.5
0°-60°	1706.0	81.8
0°-90°	2086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	821	821	821	824	825	78
15°	777	779	786	794	799	219
25°	700	702	714	728	735	322
35°	595	596	612	626	632	371
45°	470	473	489	500	506	363
55°	345	346	356	365	368	309
65°	225	225	229	233	236	223
75°	114	113	114	114	114	123
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°	826.8	826.8	826.8	826.8	826.8
2.5°	824.8	824.8	825.8	826.8	827.9
5°	820.6	820.6	820.6	823.7	824.8
7.5°	812.3	813.3	814.4	817.5	819.6
10°	802.9	804.0	806.0	811.2	813.3
12.5°	790.4	793.6	796.7	804.0	807.1
15°	776.9	779.0	786.3	793.6	798.8
17.5°	762.4	763.4	771.7	782.1	784.2
20°	741.6	744.7	755.1	765.5	770.7
22.5°	722.8	724.9	736.4	749.9	754.0
25°	700.0	702.0	714.5	728.0	735.3
27.5°	676.0	678.1	691.6	706.2	711.4
30°	650.0	652.1	665.6	681.2	686.4
32.5°	623.0	625.1	639.6	653.2	660.4
35°	594.9	596.0	611.6	626.1	632.4
37.5°	563.7	566.8	581.4	596.0	603.2
40°	532.5	535.6	552.3	565.8	571.0
42.5°	503.4	507.5	521.1	533.5	538.7
45°	470.1	473.2	488.8	500.3	505.5
47.5°	439.9	443.1	456.6	468.0	471.1
50°	408.7	410.8	422.3	432.7	436.8
52.5°	377.5	378.6	389.0	399.4	402.5
55°	345.3	346.3	355.7	365.1	368.2
57.5°	315.1	315.1	323.5	330.7	333.9
60°	282.9	282.9	290.2	297.5	300.6
62.5°	252.7	252.7	260.0	265.2	269.4
65°	224.7	224.7	228.8	233.0	236.1
67.5°	197.6	194.5	198.7	203.9	202.8
70°	169.5	166.4	169.5	171.6	172.6
72.5°	141.4	139.4	141.4	142.5	144.6
75°	114.4	113.4	114.4	114.4	114.4
77.5°	91.5	88.4	90.5	89.4	88.4
80°	67.6	66.6	65.5	64.5	65.5
82.5°	46.8	45.8	45.8	43.7	43.7
85°	27.0	26.0	26.0	23.9	23.9
87.5°	10.4	10.4	9.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)