

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: P296423

Luminaire Tested: **22RLN-LD5-31-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296423
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-LD5-31-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: 3072.0 lumens
Efficiency: N/A
Efficacy: 125.1 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

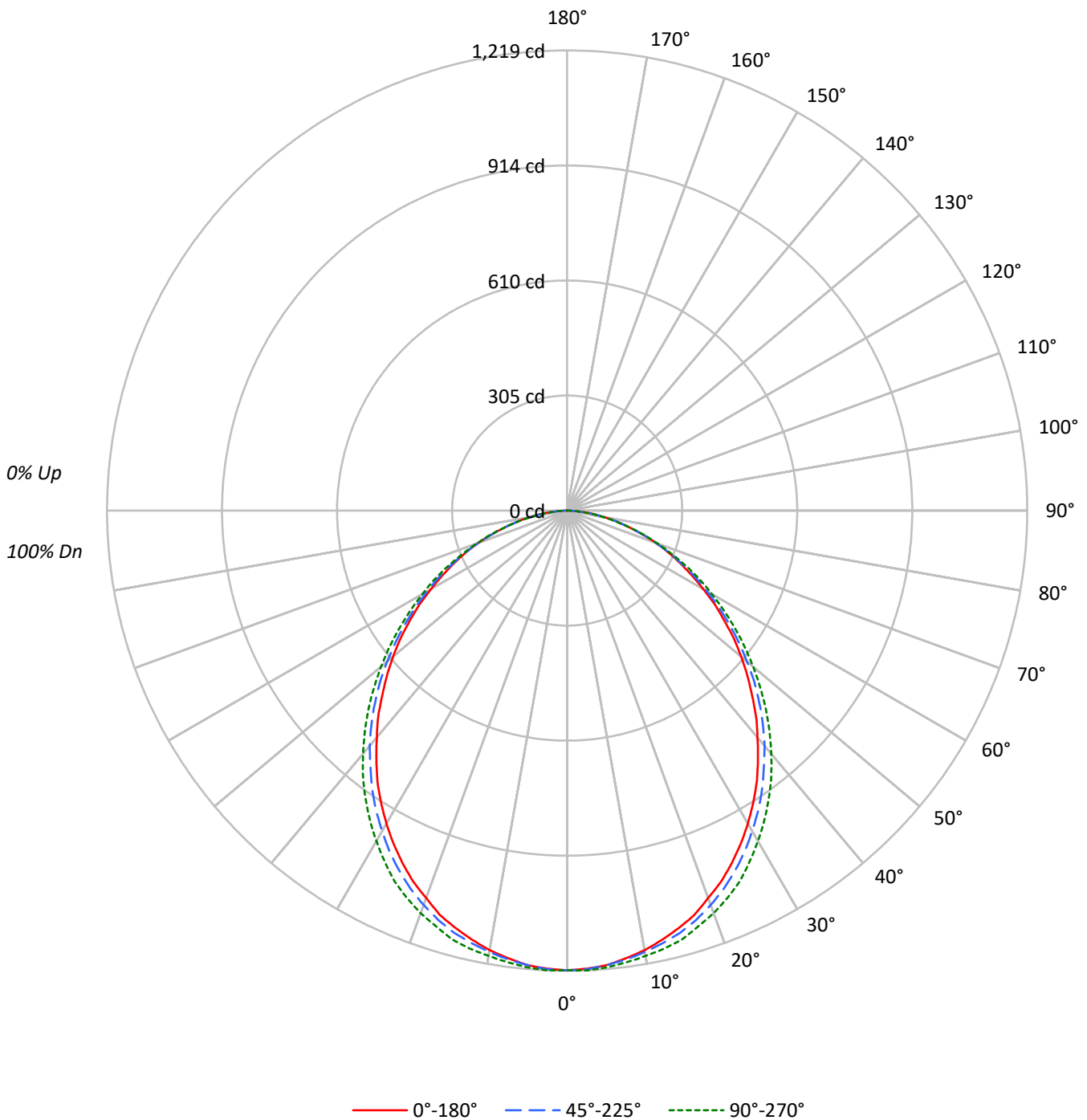
Input Watts (W): 24.552
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3277	3277	3277
5°	3264	3264	3281
10°	3231	3243	3273
15°	3188	3226	3277
20°	3127	3184	3250
25°	3061	3124	3215
30°	2975	3046	3141
35°	2878	2959	3059
40°	2755	2857	2954
45°	2635	2740	2833
50°	2520	2604	2693
55°	2386	2457	2544
60°	2242	2300	2383
65°	2106	2146	2214
70°	1965	1965	2001
75°	1752	1752	1752
80°	1543	1495	1495
85°	1229	1183	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	3.7
10°-20°	326.5	10.6
20°-30°	485.0	15.8
30°-40°	562.9	18.3
40°-50°	554.2	18.0
50°-60°	469.0	15.3
60°-70°	334.5	10.9
70°-80°	179.8	5.9
80°-90°	45.3	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°	926.3	30.2
0°-40°	1489.2	48.5
0°-60°	2512.5	81.8
0°-90°	3072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3072.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1218	1218	1218	1218	1218	
5°	1208	1208	1208	1213	1215	114
15°	1144	1147	1158	1169	1176	322
25°	1031	1034	1052	1072	1083	474
35°	876	878	901	922	931	547
45°	692	697	720	737	744	535
55°	508	510	524	538	542	455
65°	331	331	337	343	348	328
75°	168	167	168	168	168	181
85°	40	38	38	35	35	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1217.7	1217.7	1217.7	1217.7	1217.7
2.5°	1214.6	1214.6	1216.1	1217.7	1219.2
5°	1208.5	1208.5	1208.5	1213.1	1214.6
7.5°	1196.2	1197.8	1199.3	1203.9	1207.0
10°	1182.4	1184.0	1187.0	1194.7	1197.8
12.5°	1164.1	1168.7	1173.3	1184.0	1188.6
15°	1144.2	1147.2	1157.9	1168.7	1176.3
17.5°	1122.7	1124.2	1136.5	1151.8	1154.9
20°	1092.1	1096.7	1112.0	1127.3	1135.0
22.5°	1064.5	1067.6	1084.4	1104.3	1110.5
25°	1030.8	1033.9	1052.3	1072.2	1082.9
27.5°	995.6	998.6	1018.6	1040.0	1047.7
30°	957.3	960.4	980.3	1003.2	1010.9
32.5°	917.5	920.5	942.0	961.9	972.6
35°	876.1	877.6	900.6	922.1	931.3
37.5°	830.2	834.8	856.2	877.6	888.4
40°	784.2	788.8	813.3	833.2	840.9
42.5°	741.3	747.5	767.4	785.7	793.4
45°	692.3	696.9	719.9	736.7	744.4
47.5°	647.9	652.5	672.4	689.2	693.8
50°	601.9	605.0	621.9	637.2	643.3
52.5°	556.0	557.5	572.8	588.2	592.8
55°	508.5	510.0	523.8	537.6	542.2
57.5°	464.1	464.1	476.3	487.1	491.7
60°	416.6	416.6	427.3	438.1	442.7
62.5°	372.2	372.2	382.9	390.6	396.7
65°	330.8	330.8	337.0	343.1	347.7
67.5°	291.0	286.4	292.5	300.2	298.7
70°	249.7	245.1	249.7	252.7	254.3
72.5°	208.3	205.2	208.3	209.8	212.9
75°	168.5	167.0	168.5	168.5	168.5
77.5°	134.8	130.2	133.3	131.7	130.2
80°	99.6	98.0	96.5	95.0	96.5
82.5°	68.9	67.4	67.4	64.3	64.3
85°	39.8	38.3	38.3	35.2	35.2
87.5°	15.3	15.3	13.8	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)