

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: P296431

Luminaire Tested: **22RLN-LD5-35-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296431
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-LD5-35-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: 3342.0 lumens
Efficiency: N/A
Efficacy: 120.6 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

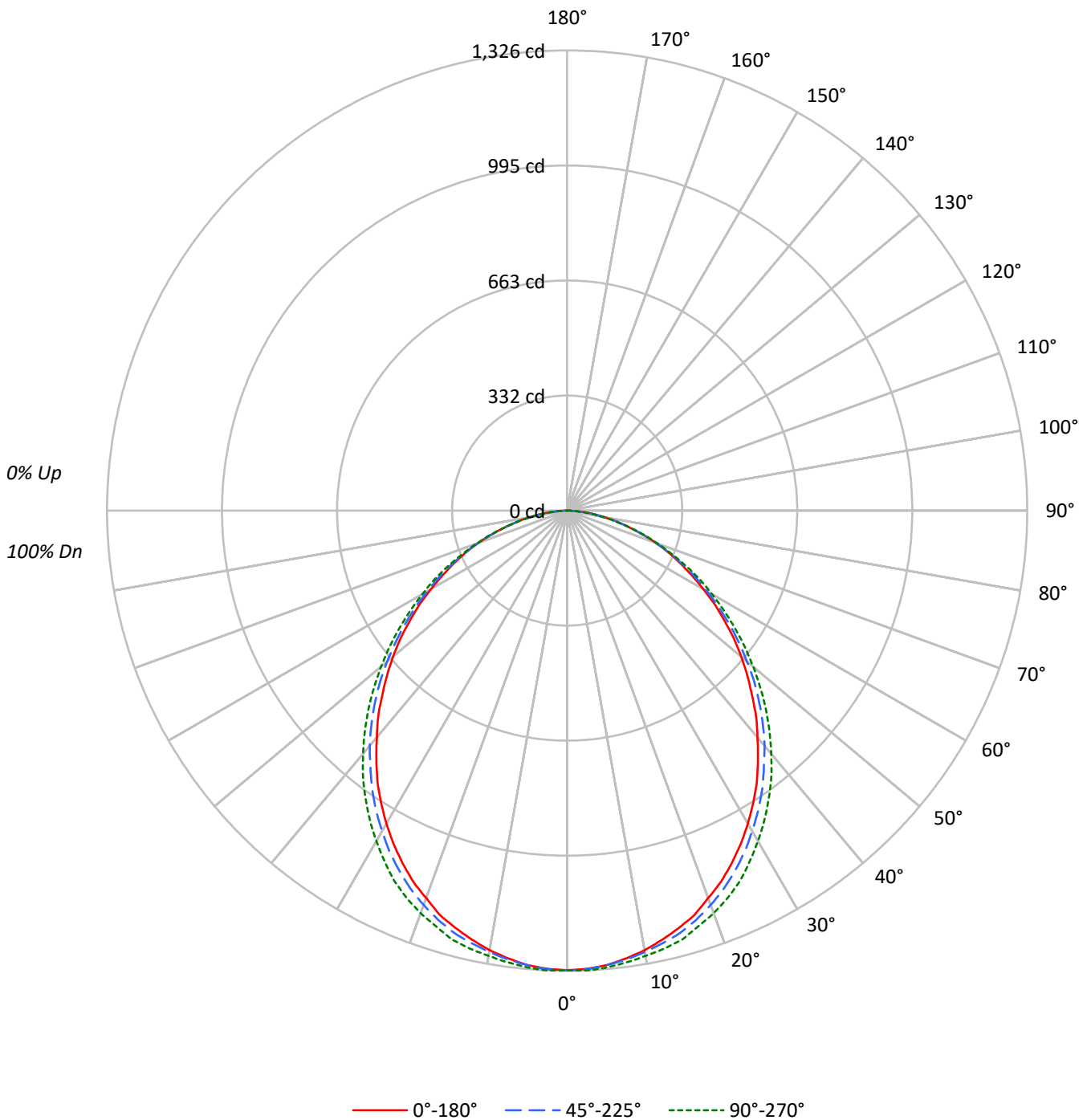
Input Watts (W): 27.714
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3565	3565	3565
5°	3551	3551	3569
10°	3515	3529	3560
15°	3468	3509	3565
20°	3402	3464	3536
25°	3330	3399	3498
30°	3236	3314	3417
35°	3131	3219	3328
40°	2997	3108	3214
45°	2866	2981	3082
50°	2741	2832	2930
55°	2595	2674	2768
60°	2439	2502	2592
65°	2292	2334	2408
70°	2137	2137	2176
75°	1906	1906	1906
80°	1678	1627	1627
85°	1337	1288	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	3.7
10°-20°	355.2	10.6
20°-30°	527.6	15.8
30°-40°	612.3	18.3
40°-50°	602.9	18.0
50°-60°	510.3	15.3
60°-70°	363.9	10.9
70°-80°	195.5	5.9
80°-90°	49.3	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°	1007.7	30.2
0°-40°	1620.1	48.5
0°-60°	2733.3	81.8
0°-90°	3342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3342.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1325	1325	1325	1325	1325	
5°	1315	1315	1315	1320	1321	125
15°	1245	1248	1260	1271	1280	351
25°	1121	1125	1145	1166	1178	516
35°	953	955	980	1003	1013	595
45°	753	758	783	802	810	582
55°	553	555	570	585	590	496
65°	360	360	367	373	378	357
75°	183	182	183	183	183	197
85°	43	42	42	38	38	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1324.7	1324.7	1324.7	1324.7	1324.7
2.5°	1321.4	1321.4	1323.0	1324.7	1326.4
5°	1314.7	1314.7	1314.7	1319.7	1321.4
7.5°	1301.4	1303.0	1304.7	1309.7	1313.0
10°	1286.4	1288.0	1291.4	1299.7	1303.0
12.5°	1266.4	1271.4	1276.4	1288.0	1293.0
15°	1244.7	1248.0	1259.7	1271.4	1279.7
17.5°	1221.4	1223.1	1236.4	1253.0	1256.4
20°	1188.1	1193.1	1209.7	1226.4	1234.7
22.5°	1158.1	1161.4	1179.7	1201.4	1208.1
25°	1121.4	1124.7	1144.7	1166.4	1178.1
27.5°	1083.1	1086.4	1108.1	1131.4	1139.7
30°	1041.4	1044.8	1066.4	1091.4	1099.7
32.5°	998.1	1001.4	1024.8	1046.4	1058.1
35°	953.1	954.8	979.8	1003.1	1013.1
37.5°	903.1	908.1	931.5	954.8	966.4
40°	853.1	858.1	884.8	906.5	914.8
42.5°	806.5	813.1	834.8	854.8	863.1
45°	753.2	758.2	783.2	801.5	809.8
47.5°	704.8	709.8	731.5	749.8	754.8
50°	654.8	658.2	676.5	693.2	699.8
52.5°	604.9	606.5	623.2	639.9	644.9
55°	553.2	554.9	569.9	584.9	589.9
57.5°	504.9	504.9	518.2	529.9	534.9
60°	453.2	453.2	464.9	476.6	481.6
62.5°	404.9	404.9	416.6	424.9	431.6
65°	359.9	359.9	366.6	373.2	378.2
67.5°	316.6	311.6	318.3	326.6	324.9
70°	271.6	266.6	271.6	274.9	276.6
72.5°	226.6	223.3	226.6	228.3	231.6
75°	183.3	181.6	183.3	183.3	183.3
77.5°	146.6	141.6	145.0	143.3	141.6
80°	108.3	106.6	105.0	103.3	105.0
82.5°	75.0	73.3	73.3	70.0	70.0
85°	43.3	41.7	41.7	38.3	38.3
87.5°	16.7	16.7	15.0	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)