

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: P296388

Luminaire Tested: **22RLN-LD5-35-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296388
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-L83050-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: 3345.0 lumens
Efficiency: N/A
Efficacy: 120.3 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

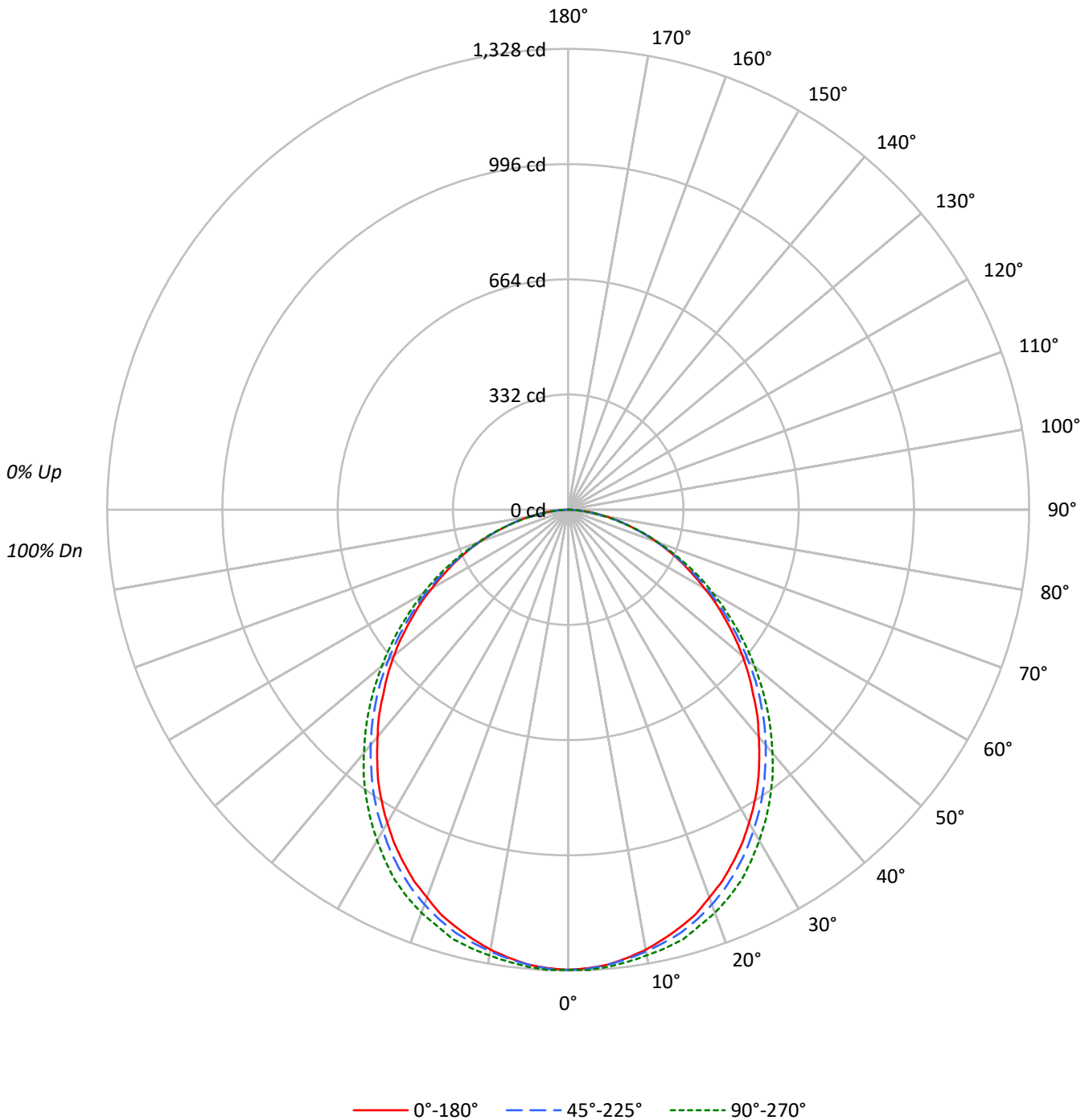
Input Watts (W): 27.807
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3568	3568	3568
5°	3555	3555	3572
10°	3518	3532	3564
15°	3471	3512	3568
20°	3405	3467	3539
25°	3333	3402	3501
30°	3239	3317	3420
35°	3134	3222	3331
40°	3000	3111	3216
45°	2869	2983	3084
50°	2744	2835	2933
55°	2598	2676	2770
60°	2441	2504	2594
65°	2294	2336	2411
70°	2138	2138	2179
75°	1908	1908	1908
80°	1680	1629	1629
85°	1340	1288	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	3.7
10°-20°	355.5	10.6
20°-30°	528.1	15.8
30°-40°	612.9	18.3
40°-50°	603.5	18.0
50°-60°	510.7	15.3
60°-70°	364.2	10.9
70°-80°	195.7	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°	1008.6	30.2
0°-40°	1621.5	48.5
0°-60°	2735.7	81.8
0°-90°	3345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1326	1326	1326	1326	1326	
5°	1316	1316	1316	1321	1322	125
15°	1246	1249	1261	1272	1281	351
25°	1122	1126	1146	1167	1179	517
35°	954	956	981	1004	1014	595
45°	754	759	784	802	810	583
55°	554	555	570	585	590	496
65°	360	360	367	374	379	357
75°	184	182	184	184	184	197
85°	43	42	42	38	38	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1325.9	1325.9	1325.9	1325.9	1325.9
2.5°	1322.5	1322.5	1324.2	1325.9	1327.6
5°	1315.9	1315.9	1315.9	1320.9	1322.5
7.5°	1302.5	1304.2	1305.9	1310.9	1314.2
10°	1287.5	1289.2	1292.5	1300.9	1304.2
12.5°	1267.5	1272.5	1277.5	1289.2	1294.2
15°	1245.8	1249.2	1260.8	1272.5	1280.9
17.5°	1222.5	1224.2	1237.5	1254.2	1257.5
20°	1189.1	1194.1	1210.8	1227.5	1235.8
22.5°	1159.1	1162.4	1180.8	1202.5	1209.1
25°	1122.4	1125.8	1145.8	1167.4	1179.1
27.5°	1084.1	1087.4	1109.1	1132.4	1140.8
30°	1042.4	1045.7	1067.4	1092.4	1100.7
32.5°	999.0	1002.3	1025.7	1047.4	1059.0
35°	954.0	955.6	980.7	1004.0	1014.0
37.5°	903.9	908.9	932.3	955.6	967.3
40°	853.9	858.9	885.6	907.3	915.6
42.5°	807.2	813.9	835.6	855.6	863.9
45°	753.8	758.8	783.9	802.2	810.5
47.5°	705.5	710.5	732.2	750.5	755.5
50°	655.4	658.8	677.1	693.8	700.5
52.5°	605.4	607.1	623.7	640.4	645.4
55°	553.7	555.4	570.4	585.4	590.4
57.5°	505.3	505.3	518.7	530.4	535.4
60°	453.6	453.6	465.3	477.0	482.0
62.5°	405.3	405.3	416.9	425.3	432.0
65°	360.2	360.2	366.9	373.6	378.6
67.5°	316.9	311.9	318.5	326.9	325.2
70°	271.8	266.8	271.8	275.2	276.9
72.5°	226.8	223.5	226.8	228.5	231.8
75°	183.5	181.8	183.5	183.5	183.5
77.5°	146.8	141.8	145.1	143.4	141.8
80°	108.4	106.7	105.1	103.4	105.1
82.5°	75.1	73.4	73.4	70.0	70.0
85°	43.4	41.7	41.7	38.4	38.4
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)