

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: P296472

Luminaire Tested: **22RLN-LD5-35-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296472
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-L93050-W2A1-U-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2754.0 lumens
Efficiency: N/A
Efficacy: 96.5 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

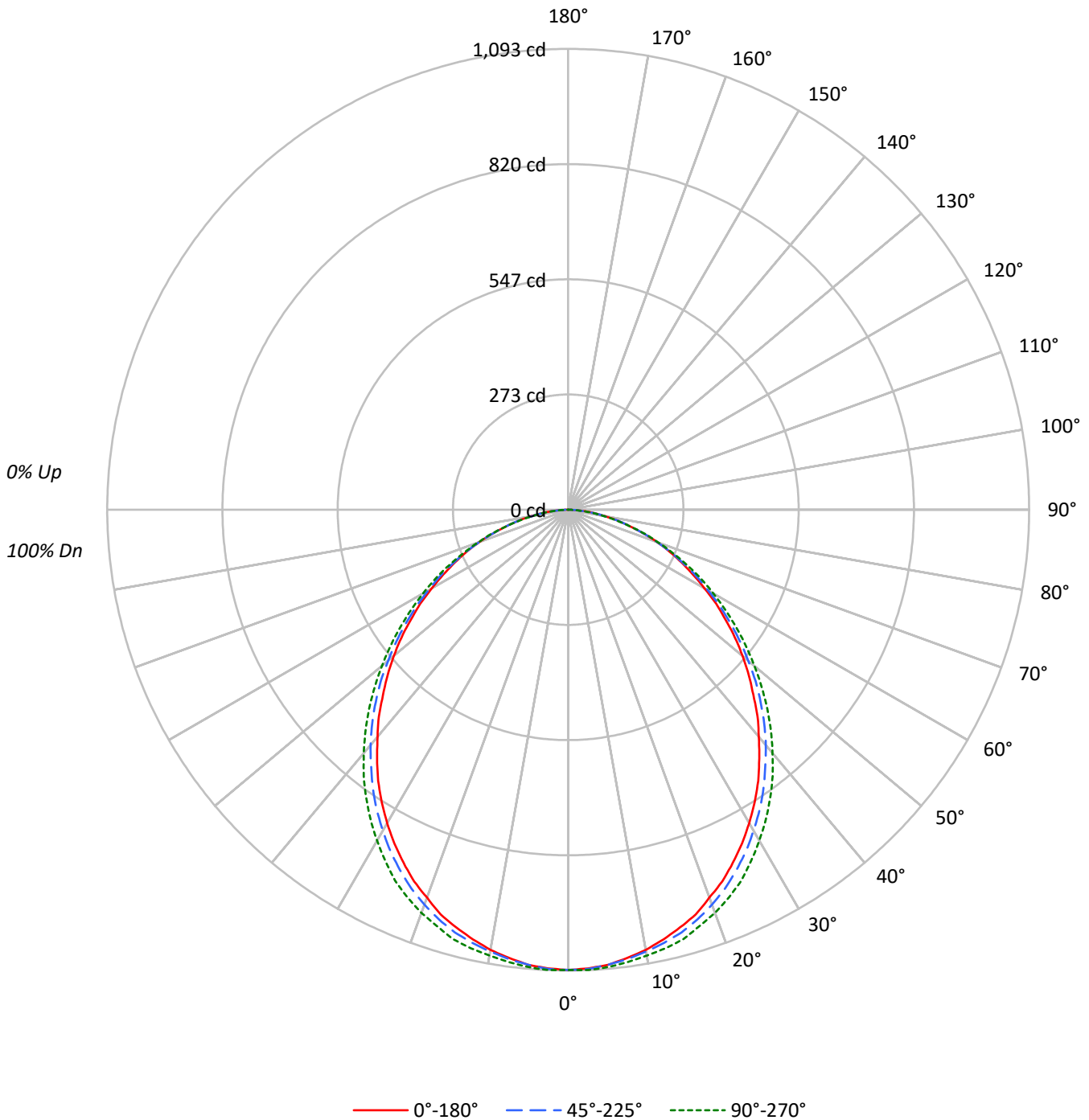
Input Watts (W): 28.551
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2937	2937	2937
5°	2927	2927	2941
10°	2896	2908	2934
15°	2858	2892	2938
20°	2804	2855	2914
25°	2744	2801	2882
30°	2667	2731	2816
35°	2580	2652	2743
40°	2470	2561	2648
45°	2362	2456	2539
50°	2259	2334	2414
55°	2139	2203	2281
60°	2010	2062	2136
65°	1889	1924	1985
70°	1761	1761	1793
75°	1570	1570	1570
80°	1384	1340	1340
85°	1102	1059	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	3.7
10°-20°	292.7	10.6
20°-30°	434.8	15.8
30°-40°	504.6	18.3
40°-50°	496.9	18.0
50°-60°	420.5	15.3
60°-70°	299.9	10.9
70°-80°	161.1	5.9
80°-90°	40.6	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°	830.4	30.2
0°-40°	1335.0	48.5
0°-60°	2252.4	81.8
0°-90°	2754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1083	1083	1083	1088	1089	103
15°	1026	1028	1038	1048	1055	289
25°	924	927	943	961	971	425
35°	785	787	807	827	835	490
45°	621	625	645	660	667	480
55°	456	457	470	482	486	408
65°	297	297	302	308	312	294
75°	151	150	151	151	151	162
85°	36	34	34	32	32	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1091.6	1091.6	1091.6	1091.6	1091.6
2.5°	1088.9	1088.9	1090.3	1091.6	1093.0
5°	1083.4	1083.4	1083.4	1087.5	1088.9
7.5°	1072.4	1073.8	1075.1	1079.3	1082.0
10°	1060.0	1061.4	1064.2	1071.0	1073.8
12.5°	1043.6	1047.7	1051.8	1061.4	1065.5
15°	1025.7	1028.5	1038.1	1047.7	1054.6
17.5°	1006.5	1007.9	1018.9	1032.6	1035.3
20°	979.0	983.1	996.9	1010.6	1017.5
22.5°	954.3	957.1	972.2	990.0	995.5
25°	924.1	926.9	943.3	961.2	970.8
27.5°	892.5	895.3	913.1	932.3	939.2
30°	858.2	860.9	878.8	899.4	906.3
32.5°	822.5	825.2	844.5	862.3	871.9
35°	785.4	786.8	807.4	826.6	834.9
37.5°	744.2	748.3	767.6	786.8	796.4
40°	703.0	707.2	729.1	747.0	753.8
42.5°	664.6	670.1	687.9	704.4	711.3
45°	620.6	624.8	645.4	660.5	667.3
47.5°	580.8	584.9	602.8	617.9	622.0
50°	539.6	542.4	557.5	571.2	576.7
52.5°	498.4	499.8	513.5	527.3	531.4
55°	455.9	457.2	469.6	482.0	486.1
57.5°	416.1	416.1	427.0	436.7	440.8
60°	373.5	373.5	383.1	392.7	396.8
62.5°	333.7	333.7	343.3	350.1	355.6
65°	296.6	296.6	302.1	307.6	311.7
67.5°	260.9	256.8	262.3	269.1	267.8
70°	223.8	219.7	223.8	226.6	227.9
72.5°	186.7	184.0	186.7	188.1	190.9
75°	151.0	149.7	151.0	151.0	151.0
77.5°	120.8	116.7	119.5	118.1	116.7
80°	89.3	87.9	86.5	85.1	86.5
82.5°	61.8	60.4	60.4	57.7	57.7
85°	35.7	34.3	34.3	31.6	31.6
87.5°	13.7	13.7	12.4	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)