

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: P229683

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1707-178-5)
Test Lab: INNOVATION CENTER-G3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-35-RDP-UNV-L830-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR AND RDP LENS
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2668.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

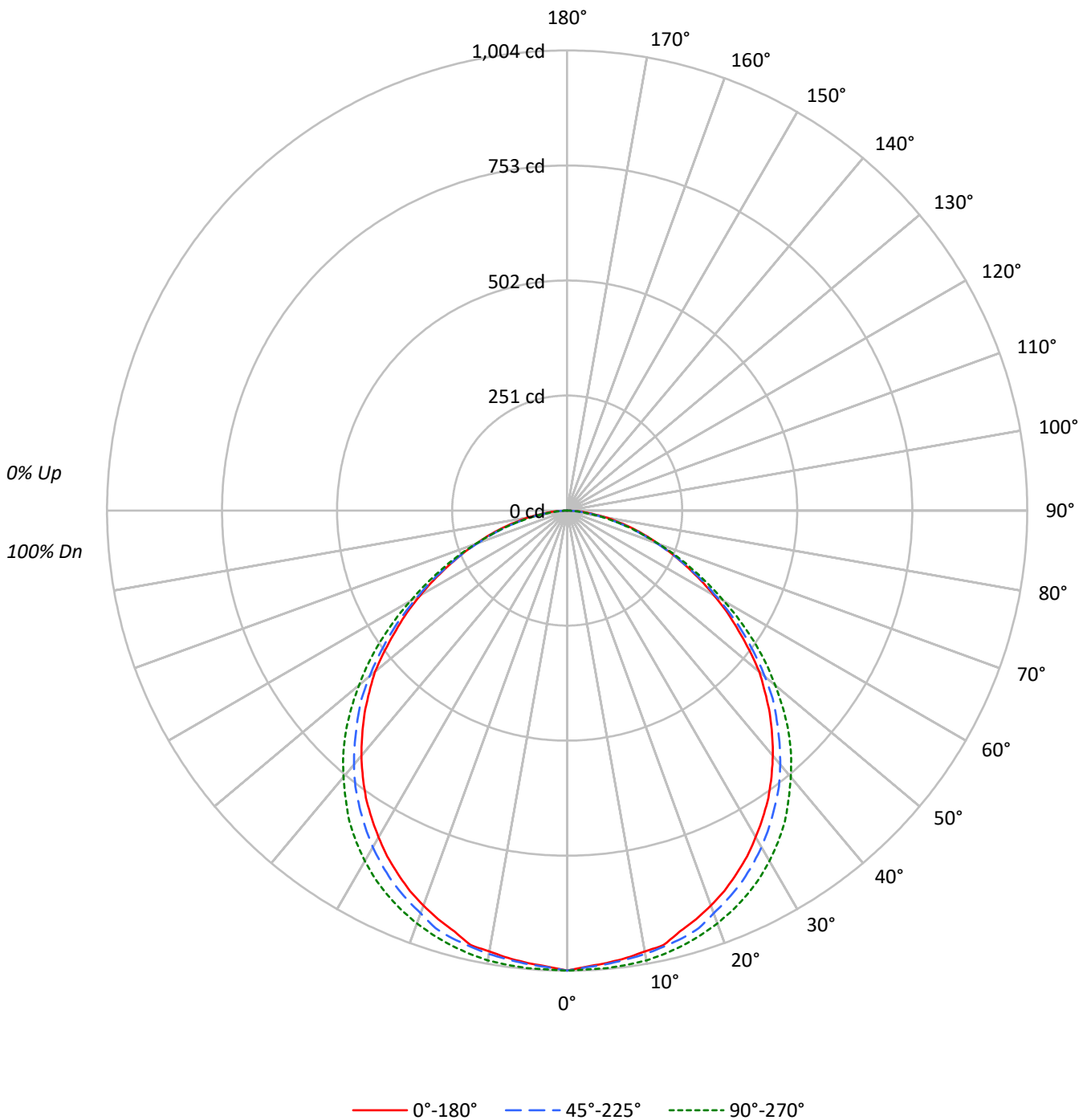
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3214	3214	3214
5°	3186	3193	3221
10°	3176	3194	3241
15°	3152	3205	3254
20°	3125	3186	3267
25°	3089	3170	3273
30°	3043	3136	3265
35°	2992	3087	3239
40°	2919	3025	3173
45°	2830	2930	3094
50°	2728	2807	2952
55°	2546	2630	2775
60°	2370	2415	2532
65°	2170	2189	2278
70°	1965	1935	1987
75°	1797	1669	1689
80°	1601	1368	1324
85°	1275	926	812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	3.5
10°-20°	272.5	10.2
20°-30°	414.1	15.5
30°-40°	495.6	18.6
40°-50°	500.5	18.8
50°-60°	422.3	15.8
60°-70°	288.3	10.8
70°-80°	146.3	5.5
80°-90°	33.7	1.3
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°	781.3	29.3
0°-40°	1276.9	47.9
0°-60°	2199.7	82.4
0°-90°	2668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2668.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1004	1004	1004	1004	1004	
5°	991	991	993	998	1002	94
15°	951	955	966	974	982	269
25°	874	882	897	916	926	403
35°	765	772	790	814	828	478
45°	625	628	647	672	683	481
55°	456	455	471	488	497	409
65°	286	282	289	294	301	285
75°	145	136	135	134	136	154
85°	35	30	25	23	22	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1003.6	1003.6	1003.6	1003.6	1003.6
2.5°	995.7	995.7	997.2	1002.8	1002.0
5°	990.9	990.9	993.3	998.0	1002.0
7.5°	984.6	985.4	987.8	994.9	999.6
10°	976.7	977.5	982.3	989.4	996.5
12.5°	971.2	972.0	974.4	983.0	990.1
15°	950.7	954.6	966.5	973.6	981.5
17.5°	934.9	939.7	955.4	961.7	971.2
20°	916.8	922.3	934.9	949.1	958.6
22.5°	897.8	904.1	916.8	933.3	943.6
25°	874.2	882.1	897.0	916.0	926.2
27.5°	850.5	858.4	873.4	899.4	906.5
30°	822.9	831.6	848.1	873.4	882.8
32.5°	794.5	802.4	819.7	845.8	856.8
35°	765.3	771.6	789.7	814.2	828.4
37.5°	732.2	738.5	759.0	782.6	793.7
40°	698.2	703.0	723.5	747.1	759.0
42.5°	661.9	666.7	685.6	710.1	723.5
45°	624.9	628.0	646.9	672.2	683.2
47.5°	585.4	588.6	608.3	628.8	639.1
50°	547.5	546.0	563.3	582.3	592.5
52.5°	501.0	501.8	516.8	534.9	546.7
55°	456.0	455.2	471.0	488.4	497.0
57.5°	414.2	411.0	424.5	436.3	446.6
60°	370.0	366.9	377.1	389.7	395.3
62.5°	327.4	323.5	333.7	340.8	346.4
65°	286.4	282.4	288.8	294.3	300.6
67.5°	247.7	243.0	248.5	251.7	256.4
70°	209.9	205.9	206.7	210.7	212.2
72.5°	177.5	169.6	170.4	170.4	172.8
75°	145.2	136.5	134.9	134.1	136.5
77.5°	112.8	105.7	103.4	102.6	102.6
80°	86.8	77.3	74.2	71.8	71.8
82.5°	56.8	53.6	48.1	45.0	43.4
85°	34.7	30.0	25.2	22.9	22.1
87.5°	13.4	11.0	9.5	9.5	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)