

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: P229623

Luminaire Tested: **22RLN-LD5-35-RDP-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-35-RDP-UNV-L840-CD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS
Light Source: (126)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2886.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

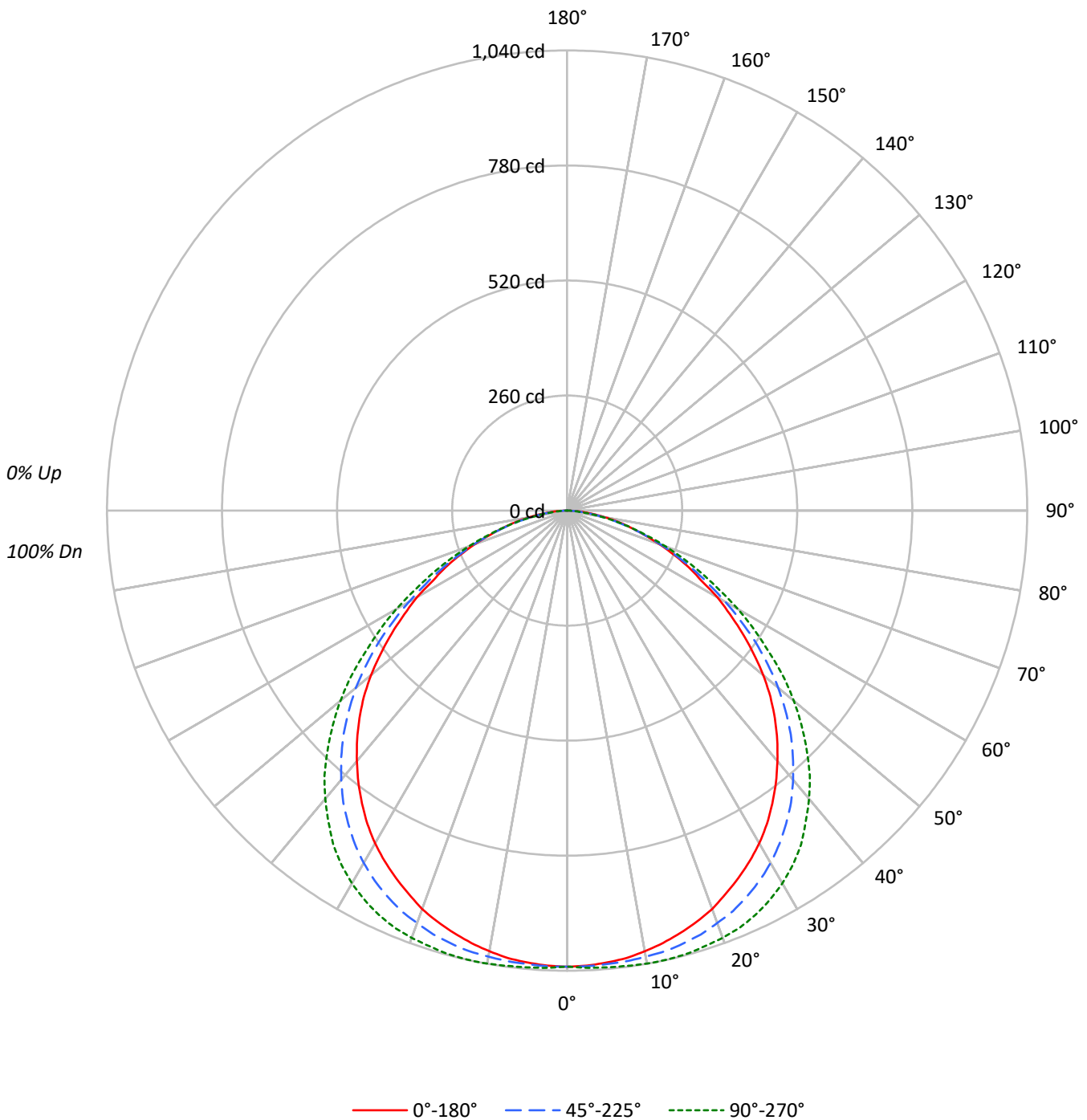
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3302	3302	3302
5°	3297	3308	3331
10°	3289	3329	3381
15°	3277	3359	3441
20°	3267	3381	3502
25°	3237	3399	3562
30°	3212	3401	3597
35°	3161	3375	3602
40°	3092	3321	3557
45°	3006	3238	3470
50°	2885	3105	3333
55°	2701	2907	3104
60°	2510	2646	2861
65°	2301	2381	2542
70°	2083	2115	2215
75°	1835	1791	1856
80°	1595	1464	1400
85°	1297	974	841



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	3.4
10°-20°	286.2	9.9
20°-30°	443.5	15.4
30°-40°	539.7	18.7
40°-50°	549.7	19.0
50°-60°	463.6	16.1
60°-70°	313.6	10.9
70°-80°	156.7	5.4
80°-90°	34.9	1.2
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°	827.9	28.7
0°-40°	1367.6	47.4
0°-60°	2380.8	82.5
0°-90°	2886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1031	1031	1031	1031	1031	
5°	1026	1027	1029	1034	1036	97
15°	988	996	1013	1031	1038	279
25°	916	930	962	994	1008	422
35°	808	826	863	904	921	505
45°	664	676	715	752	766	511
55°	484	491	521	546	556	433
65°	304	298	314	328	335	300
75°	148	143	145	146	150	159
85°	35	30	26	23	23	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1030.9	1030.9	1030.9	1030.9	1030.9
2.5°	1029.1	1029.1	1030.9	1032.7	1034.4
5°	1025.6	1027.4	1029.1	1034.4	1036.2
7.5°	1020.3	1022.1	1027.4	1034.4	1037.9
10°	1011.5	1015.0	1023.8	1034.4	1039.7
12.5°	1000.9	1006.2	1020.3	1032.7	1039.7
15°	988.5	995.6	1013.2	1030.9	1037.9
17.5°	974.4	983.2	1004.4	1023.8	1032.7
20°	958.5	969.1	992.1	1016.8	1027.4
22.5°	937.3	951.5	979.7	1007.9	1020.3
25°	916.1	930.3	962.0	993.8	1007.9
27.5°	893.2	909.1	942.6	977.9	992.1
30°	868.5	882.6	919.7	956.7	972.6
32.5°	840.2	854.4	893.2	932.0	949.7
35°	808.5	826.1	863.2	903.8	921.4
37.5°	774.9	790.8	831.4	870.3	886.1
40°	739.6	755.5	794.3	834.9	850.8
42.5°	702.6	718.4	755.5	794.3	812.0
45°	663.7	676.1	714.9	752.0	766.1
47.5°	623.1	631.9	669.0	704.3	718.4
50°	579.0	587.8	623.1	654.9	669.0
52.5°	531.3	538.4	571.9	600.2	616.1
55°	483.7	490.7	520.7	545.5	556.0
57.5°	436.0	439.5	466.0	490.7	501.3
60°	391.9	391.9	413.1	432.5	446.6
62.5°	340.7	346.0	361.9	381.3	386.6
65°	303.6	298.3	314.2	328.3	335.4
67.5°	261.3	257.7	268.3	280.7	284.2
70°	222.4	217.1	225.9	233.0	236.5
72.5°	181.8	180.1	183.6	188.9	190.6
75°	148.3	143.0	144.7	146.5	150.0
77.5°	118.3	109.4	111.2	109.4	111.2
80°	86.5	79.4	79.4	77.7	75.9
82.5°	58.3	54.7	51.2	47.7	45.9
85°	35.3	30.0	26.5	22.9	22.9
87.5°	14.1	10.6	8.8	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)