

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: P229643

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229643
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-LD5-44-RDP-UNV-L940-CD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH RDP LENS
Light Source: (126)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3163.0 lumens
Efficiency: N/A
Efficacy: 79.9 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

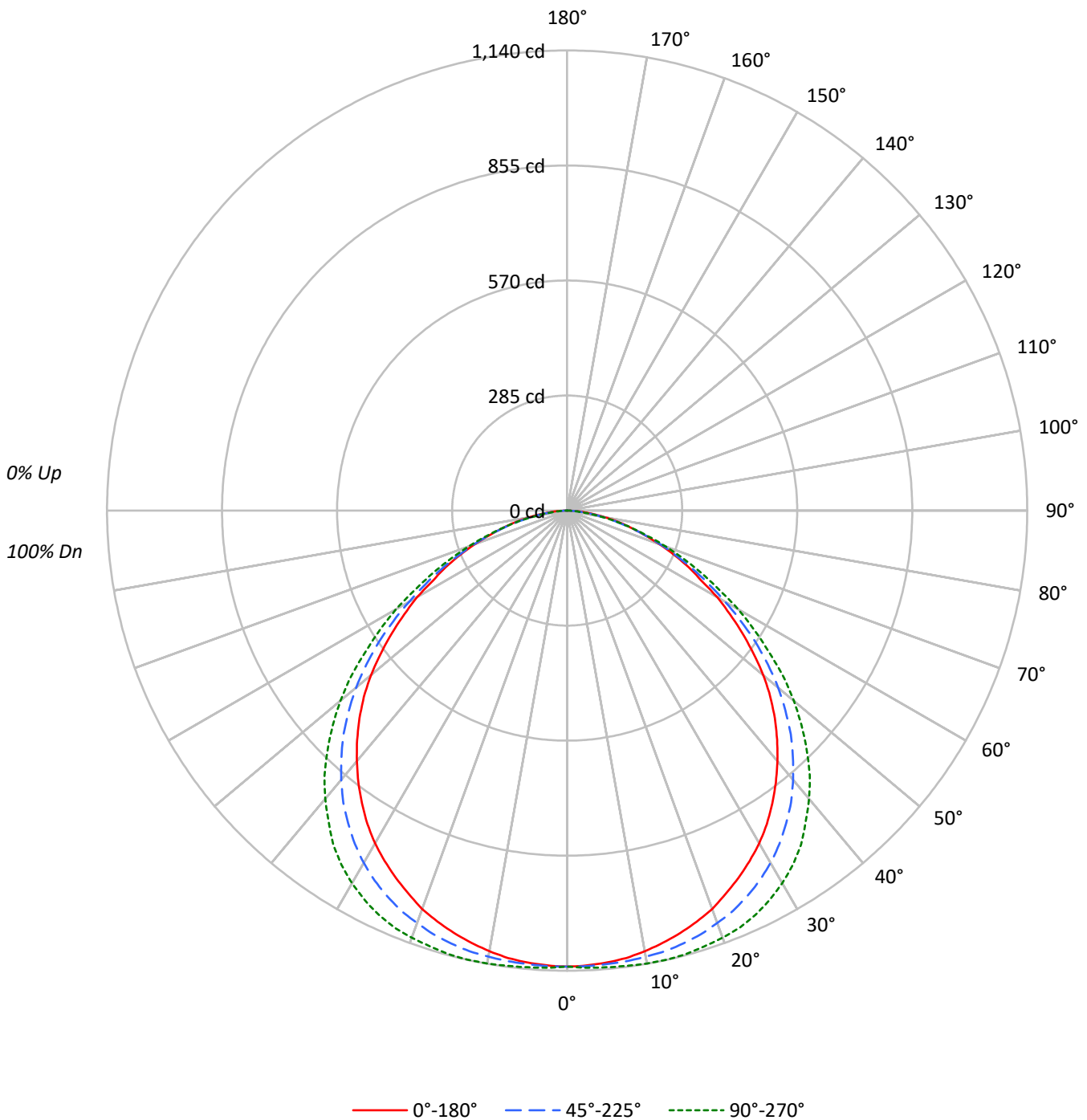
Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3618	3618	3618
5°	3613	3626	3651
10°	3605	3649	3706
15°	3592	3682	3772
20°	3580	3706	3838
25°	3548	3726	3904
30°	3520	3728	3942
35°	3464	3699	3948
40°	3389	3640	3899
45°	3295	3549	3803
50°	3162	3402	3653
55°	2960	3187	3403
60°	2751	2900	3135
65°	2522	2610	2786
70°	2283	2318	2427
75°	2011	1963	2034
80°	1748	1606	1534
85°	1422	1066	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	3.4
10°-20°	313.7	9.9
20°-30°	486.0	15.4
30°-40°	591.5	18.7
40°-50°	602.4	19.0
50°-60°	508.1	16.1
60°-70°	343.7	10.9
70°-80°	171.7	5.4
80°-90°	38.2	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°	907.3	28.7
0°-40°	1498.9	47.4
0°-60°	2609.4	82.5
0°-90°	3163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3163.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1130	1130	1130	1130	1130	
5°	1124	1126	1128	1134	1136	107
15°	1083	1091	1110	1130	1138	306
25°	1004	1020	1054	1089	1105	463
35°	886	905	946	990	1010	554
45°	727	741	784	824	840	560
55°	530	538	571	598	609	474
65°	333	327	344	360	368	329
75°	162	157	159	161	164	174
85°	39	33	29	25	25	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1129.8	1129.8	1129.8	1129.8	1129.8
2.5°	1127.9	1127.9	1129.8	1131.8	1133.7
5°	1124.0	1126.0	1127.9	1133.7	1135.6
7.5°	1118.2	1120.2	1126.0	1133.7	1137.6
10°	1108.6	1112.4	1122.1	1133.7	1139.5
12.5°	1096.9	1102.7	1118.2	1131.8	1139.5
15°	1083.4	1091.1	1110.5	1129.8	1137.6
17.5°	1067.9	1077.6	1100.8	1122.1	1131.8
20°	1050.5	1062.1	1087.3	1114.4	1126.0
22.5°	1027.3	1042.8	1073.7	1104.7	1118.2
25°	1004.1	1019.6	1054.4	1089.2	1104.7
27.5°	978.9	996.3	1033.1	1071.8	1087.3
30°	951.8	967.3	1008.0	1048.6	1066.0
32.5°	920.9	936.4	978.9	1021.5	1040.8
35°	886.1	905.4	946.0	990.5	1009.9
37.5°	849.3	866.7	911.2	953.8	971.2
40°	810.6	828.0	870.6	915.1	932.5
42.5°	770.0	787.4	828.0	870.6	889.9
45°	727.4	741.0	783.5	824.2	839.6
47.5°	682.9	692.6	733.2	771.9	787.4
50°	634.6	644.2	682.9	717.8	733.2
52.5°	582.3	590.1	626.8	657.8	675.2
55°	530.1	537.8	570.7	597.8	609.4
57.5°	477.9	481.7	510.7	537.8	549.4
60°	429.5	429.5	452.7	474.0	489.5
62.5°	373.4	379.2	396.6	417.9	423.7
65°	332.8	327.0	344.4	359.8	367.6
67.5°	286.3	282.5	294.1	307.6	311.5
70°	243.8	238.0	247.6	255.4	259.2
72.5°	199.3	197.3	201.2	207.0	208.9
75°	162.5	156.7	158.6	160.6	164.4
77.5°	129.6	119.9	121.9	119.9	121.9
80°	94.8	87.1	87.1	85.1	83.2
82.5°	63.8	60.0	56.1	52.2	50.3
85°	38.7	32.9	29.0	25.2	25.2
87.5°	15.5	11.6	9.7	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)