

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: P229677

Luminaire Tested: **22RLN-LD5-35-UNV-L940-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36063)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-35-UNV-L940-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR
Light Source: (126)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3028.0 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.21 / 1.29
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

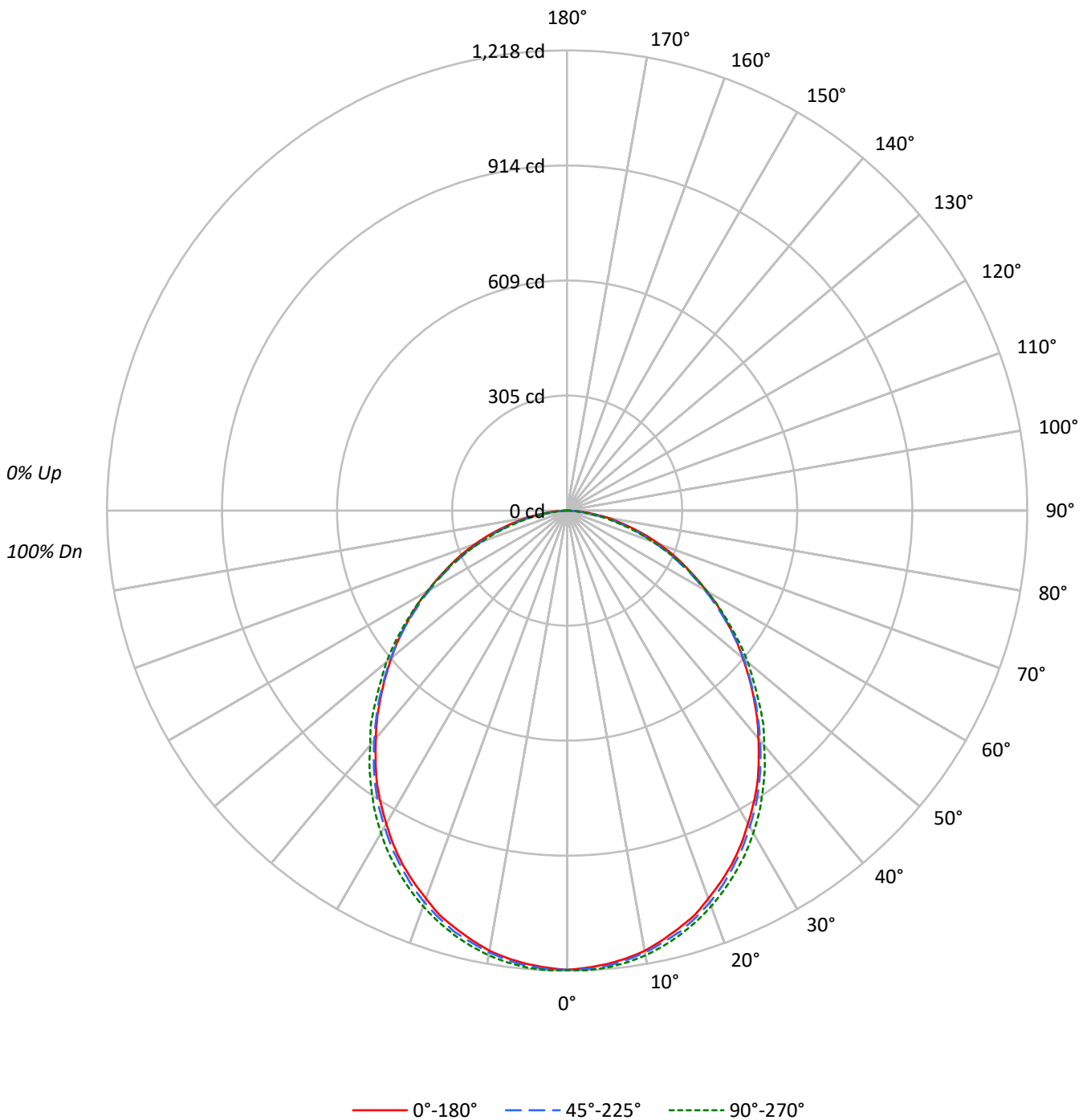
Input Watts (W): 30.57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	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	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	58	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3894	3894	3894
5°	3874	3889	3904
10°	3848	3863	3888
15°	3794	3825	3851
20°	3725	3762	3799
25°	3647	3675	3730
30°	3541	3575	3644
35°	3433	3463	3530
40°	3294	3319	3391
45°	3159	3180	3251
50°	3025	3041	3110
55°	2886	2877	2930
60°	2732	2693	2742
65°	2584	2489	2548
70°	2420	2289	2245
75°	2196	2023	1945
80°	1981	1723	1608
85°	1543	1202	1029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	3.8
10°-20°	324.9	10.7
20°-30°	479.7	15.8
30°-40°	554.7	18.3
40°-50°	544.1	18.0
50°-60°	462.7	15.3
60°-70°	329.6	10.9
70°-80°	175.8	5.8
80°-90°	41.8	1.4
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°	919.3	30.4
0°-40°	1474.0	48.7
0°-60°	2480.8	81.9
0°-90°	3028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1205	1207	1210	1213	1214	114
15°	1144	1146	1154	1160	1161	323
25°	1032	1034	1040	1051	1056	475
35°	878	875	886	900	903	548
45°	698	696	702	715	718	539
55°	517	512	515	522	525	463
65°	341	330	328	330	336	338
75°	178	168	164	160	157	190
85°	42	37	33	28	28	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1215.9	1215.9	1215.9	1215.9	1215.9
2.5°	1211.2	1212.8	1214.3	1217.5	1217.5
5°	1205.0	1206.6	1209.7	1212.8	1214.3
7.5°	1195.7	1195.7	1200.3	1203.4	1206.6
10°	1183.2	1184.8	1187.9	1192.5	1195.7
12.5°	1164.5	1167.6	1170.8	1177.0	1180.1
15°	1144.3	1145.8	1153.6	1159.9	1161.4
17.5°	1122.5	1122.5	1130.3	1136.5	1139.6
20°	1092.9	1096.0	1103.8	1111.6	1114.7
22.5°	1063.3	1066.4	1074.2	1082.0	1086.7
25°	1032.2	1033.7	1040.0	1050.9	1055.5
27.5°	996.4	999.5	1005.7	1016.6	1022.9
30°	957.5	960.6	966.8	979.3	985.5
32.5°	918.5	921.7	927.9	940.3	946.6
35°	878.1	875.0	885.8	899.9	903.0
37.5°	832.9	834.5	840.7	853.2	859.4
40°	787.8	787.8	794.0	808.0	811.1
42.5°	744.2	742.6	748.8	761.3	769.1
45°	697.5	695.9	702.1	714.6	717.7
47.5°	652.3	649.2	655.4	666.3	669.4
50°	607.2	604.1	610.3	619.6	624.3
52.5°	563.6	557.4	562.0	569.8	574.5
55°	516.9	512.2	515.3	521.5	524.7
57.5°	474.8	465.5	467.1	473.3	476.4
60°	426.6	418.8	420.4	426.6	428.1
62.5°	383.0	375.2	375.2	376.8	379.9
65°	341.0	330.1	328.5	330.1	336.3
67.5°	300.5	289.6	286.5	286.5	288.0
70°	258.4	247.5	244.4	242.9	239.8
72.5°	219.5	205.5	203.9	199.3	200.8
75°	177.5	168.1	163.5	160.4	157.2
77.5°	140.1	132.3	126.1	121.4	121.4
80°	107.4	96.5	93.4	87.2	87.2
82.5°	71.6	66.9	60.7	56.0	54.5
85°	42.0	37.4	32.7	28.0	28.0
87.5°	15.6	12.5	10.9	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)