

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: P295693

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-40-RDP-UNV-L83050-W2A1-U-3000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3252.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

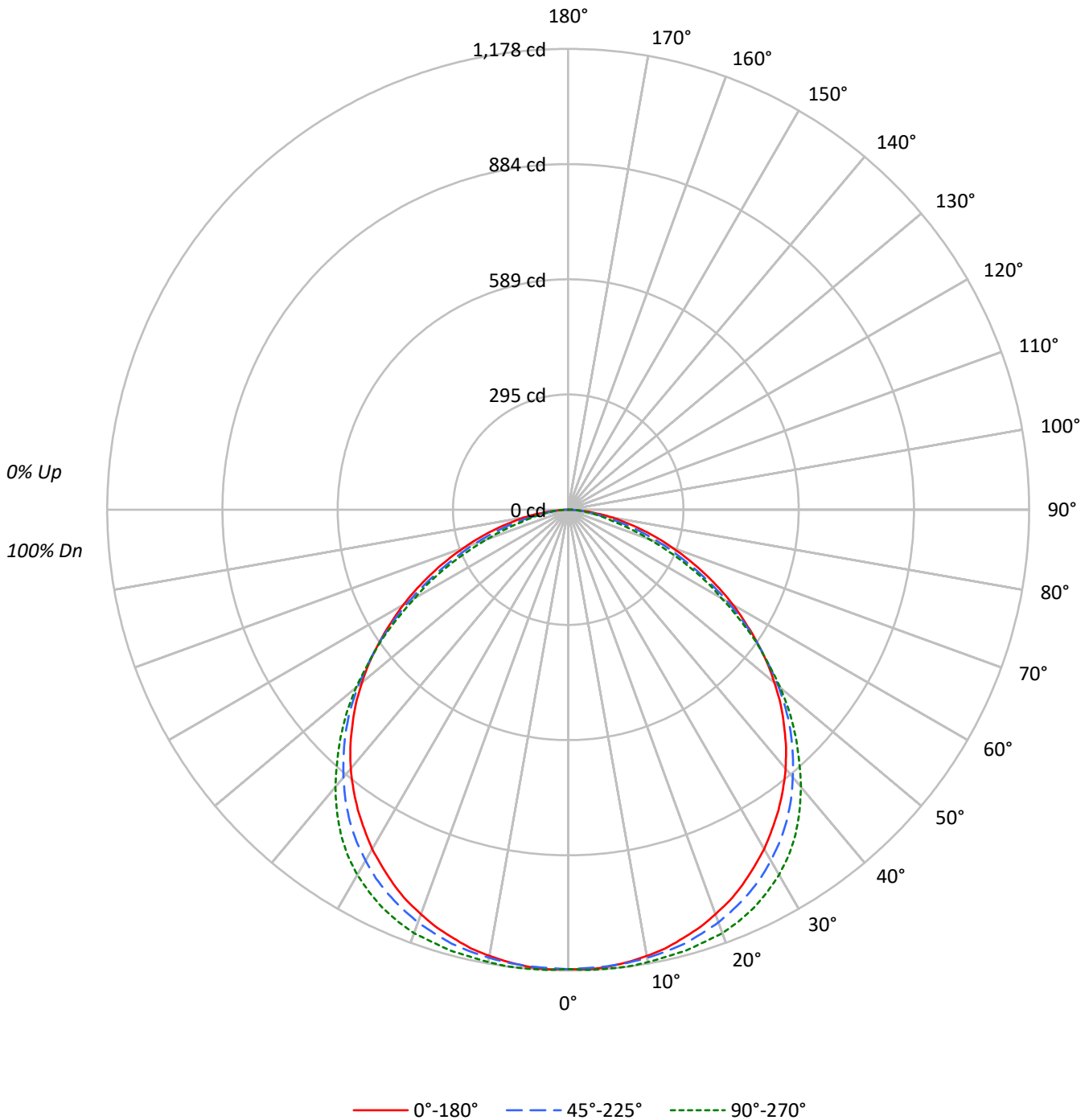
Input Watts (W): 39.339
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3160	3160	3160
5°	3168	3164	3181
10°	3165	3178	3209
15°	3159	3200	3249
20°	3150	3215	3298
25°	3137	3223	3333
30°	3112	3218	3348
35°	3078	3195	3327
40°	3036	3138	3251
45°	2970	3062	3129
50°	2881	2935	2962
55°	2759	2751	2736
60°	2617	2530	2434
65°	2438	2263	2139
70°	2224	1983	1729
75°	1998	1646	1293
80°	1777	1201	1127
85°	1396	997	997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	3.4
10°-20°	324.9	10.0
20°-30°	501.4	15.4
30°-40°	608.1	18.7
40°-50°	617.4	19.0
50°-60°	522.3	16.1
60°-70°	353.4	10.9
70°-80°	170.9	5.3
80°-90°	41.7	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°	938.1	28.8
0°-40°	1546.3	47.5
0°-60°	2686.0	82.6
0°-90°	3252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3252.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1173	1173	1171	1176	1178	111
15°	1134	1140	1149	1162	1166	320
25°	1056	1065	1086	1113	1123	487
35°	937	947	972	1003	1013	586
45°	780	782	804	821	822	602
55°	588	583	586	586	583	526
65°	383	367	355	341	336	380
75°	192	178	158	137	124	205
85°	45	36	32	32	32	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1174.4	1174.4	1174.4	1174.4	1174.4
2.5°	1176.0	1176.0	1172.8	1176.0	1177.6
5°	1172.8	1172.8	1171.2	1176.0	1177.6
7.5°	1166.3	1168.0	1168.0	1174.4	1177.6
10°	1158.3	1161.5	1163.1	1172.8	1174.4
12.5°	1148.6	1151.8	1156.6	1168.0	1169.6
15°	1134.0	1140.5	1148.6	1161.5	1166.3
17.5°	1119.5	1126.0	1135.6	1153.4	1158.3
20°	1100.1	1108.2	1122.7	1143.7	1151.8
22.5°	1080.7	1087.2	1105.0	1130.8	1138.9
25°	1056.5	1064.6	1085.6	1113.0	1122.7
27.5°	1029.0	1040.3	1063.0	1092.0	1101.7
30°	1001.6	1011.3	1035.5	1067.8	1077.5
32.5°	969.3	978.9	1006.4	1037.1	1048.4
35°	936.9	946.6	972.5	1003.2	1012.9
37.5°	901.4	907.9	935.3	961.2	970.9
40°	864.3	869.1	893.3	919.2	925.6
42.5°	823.9	827.1	849.7	872.3	873.9
45°	780.3	781.9	804.5	820.6	822.3
47.5°	736.6	735.0	754.4	765.7	767.3
50°	688.2	688.2	701.1	707.6	707.6
52.5°	639.7	636.5	642.9	647.8	642.9
55°	588.0	583.2	586.4	586.4	583.2
57.5°	536.3	526.6	528.2	525.0	516.9
60°	486.2	474.9	470.1	458.8	452.3
62.5°	434.6	421.6	411.9	399.0	397.4
65°	382.9	366.7	355.4	340.9	336.0
67.5°	332.8	318.2	302.1	285.9	276.2
70°	282.7	266.5	252.0	231.0	219.7
72.5°	237.5	222.9	205.2	180.9	172.9
75°	192.2	177.7	158.3	137.3	124.4
77.5°	148.6	137.3	116.3	98.5	96.9
80°	114.7	101.8	77.5	72.7	72.7
82.5°	74.3	66.2	54.9	51.7	51.7
85°	45.2	35.5	32.3	32.3	32.3
87.5°	17.8	16.2	16.2	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)