

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: P296706

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)
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-L92765-W2A1-U-5500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3338.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

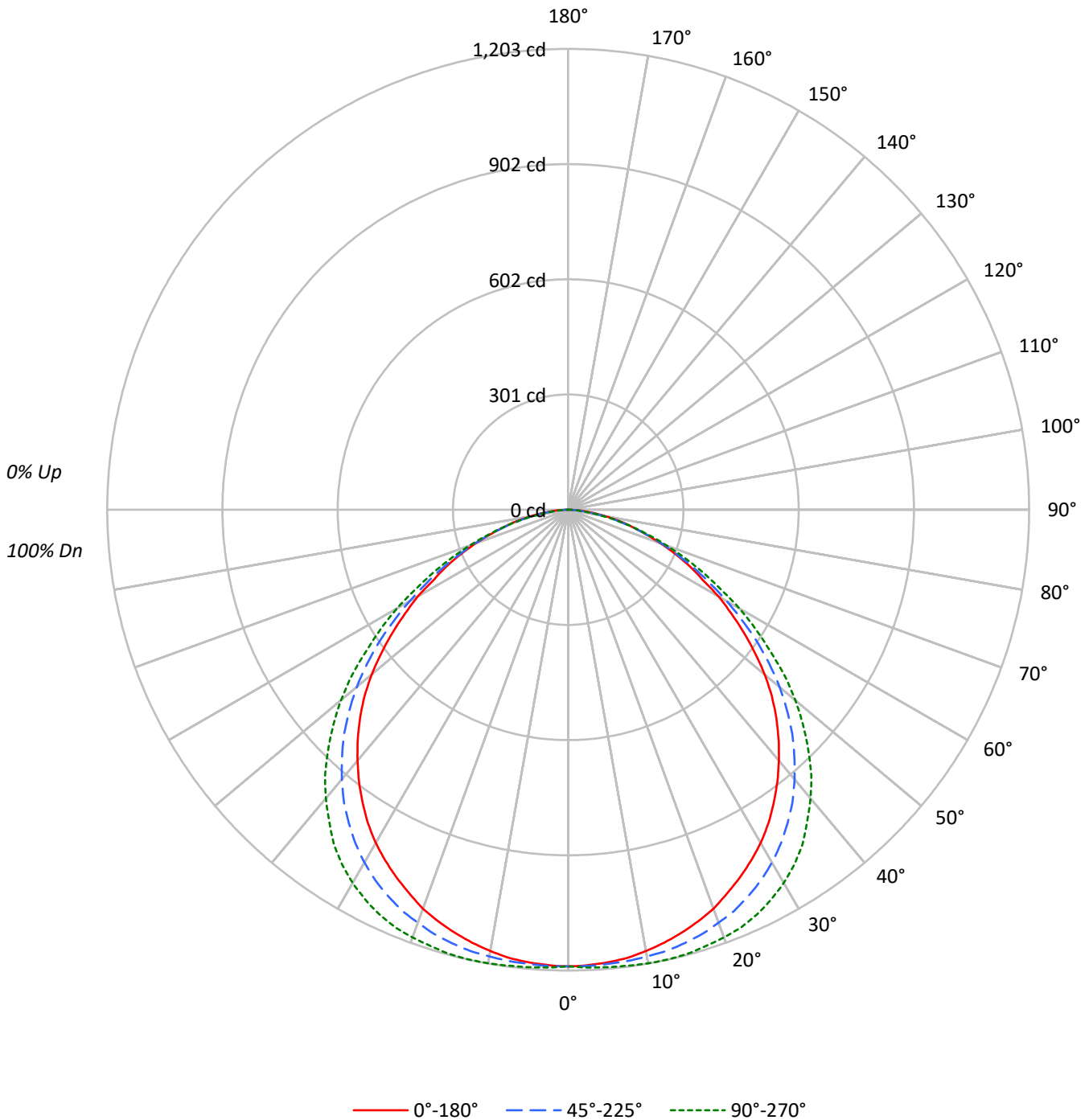
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3208	3208	3208
5°	3204	3215	3237
10°	3197	3236	3286
15°	3185	3265	3344
20°	3175	3286	3403
25°	3146	3304	3461
30°	3121	3305	3496
35°	3072	3280	3501
40°	3005	3228	3457
45°	2922	3147	3372
50°	2804	3017	3239
55°	2624	2826	3017
60°	2440	2571	2780
65°	2236	2314	2470
70°	2024	2056	2153
75°	1783	1740	1804
80°	1550	1424	1361
85°	1260	945	818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	3.4
10°-20°	331.1	9.9
20°-30°	512.9	15.4
30°-40°	624.2	18.7
40°-50°	635.8	19.0
50°-60°	536.2	16.1
60°-70°	362.7	10.9
70°-80°	181.3	5.4
80°-90°	40.3	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°	957.5	28.7
0°-40°	1581.8	47.4
0°-60°	2753.7	82.5
0°-90°	3338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3338.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1186	1188	1190	1196	1198	113
15°	1143	1152	1172	1192	1200	323
25°	1060	1076	1113	1150	1166	488
35°	935	956	998	1045	1066	584
45°	768	782	827	870	886	591
55°	559	568	602	631	643	500
65°	351	345	363	380	388	347
75°	172	165	167	170	174	184
85°	41	35	31	26	26	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1192.3	1192.3	1192.3	1192.3	1192.3
2.5°	1190.3	1190.3	1192.3	1194.4	1196.4
5°	1186.2	1188.3	1190.3	1196.4	1198.5
7.5°	1180.1	1182.1	1188.3	1196.4	1200.5
10°	1169.9	1174.0	1184.2	1196.4	1202.6
12.5°	1157.6	1163.8	1180.1	1194.4	1202.6
15°	1143.3	1151.5	1171.9	1192.3	1200.5
17.5°	1127.0	1137.2	1161.7	1184.2	1194.4
20°	1108.6	1120.9	1147.4	1176.0	1188.3
22.5°	1084.1	1100.5	1133.1	1165.8	1180.1
25°	1059.6	1076.0	1112.7	1149.5	1165.8
27.5°	1033.1	1051.5	1090.3	1131.1	1147.4
30°	1004.5	1020.8	1063.7	1106.6	1125.0
32.5°	971.8	988.2	1033.1	1078.0	1098.4
35°	935.1	955.5	998.4	1045.3	1065.8
37.5°	896.3	914.7	961.6	1006.6	1024.9
40°	855.5	873.8	918.8	965.7	984.1
42.5°	812.6	831.0	873.8	918.8	939.2
45°	767.7	782.0	826.9	869.8	886.1
47.5°	720.7	730.9	773.8	814.6	831.0
50°	669.7	679.9	720.7	757.5	773.8
52.5°	614.5	622.7	661.5	694.2	712.5
55°	559.4	567.6	602.3	630.9	643.1
57.5°	504.3	508.4	539.0	567.6	579.8
60°	453.3	453.3	477.8	500.2	516.5
62.5°	394.0	400.2	418.5	441.0	447.1
65°	351.2	345.0	363.4	379.8	387.9
67.5°	302.2	298.1	310.3	324.6	328.7
70°	257.3	251.1	261.3	269.5	273.6
72.5°	210.3	208.3	212.3	218.5	220.5
75°	171.5	165.4	167.4	169.5	173.5
77.5°	136.8	126.6	128.6	126.6	128.6
80°	100.0	91.9	91.9	89.8	87.8
82.5°	67.4	63.3	59.2	55.1	53.1
85°	40.8	34.7	30.6	26.5	26.5
87.5°	16.3	12.3	10.2	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)