

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: P296567

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296567
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-L83050-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3556.0 lumens
Efficiency: N/A
Efficacy: 99.8 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

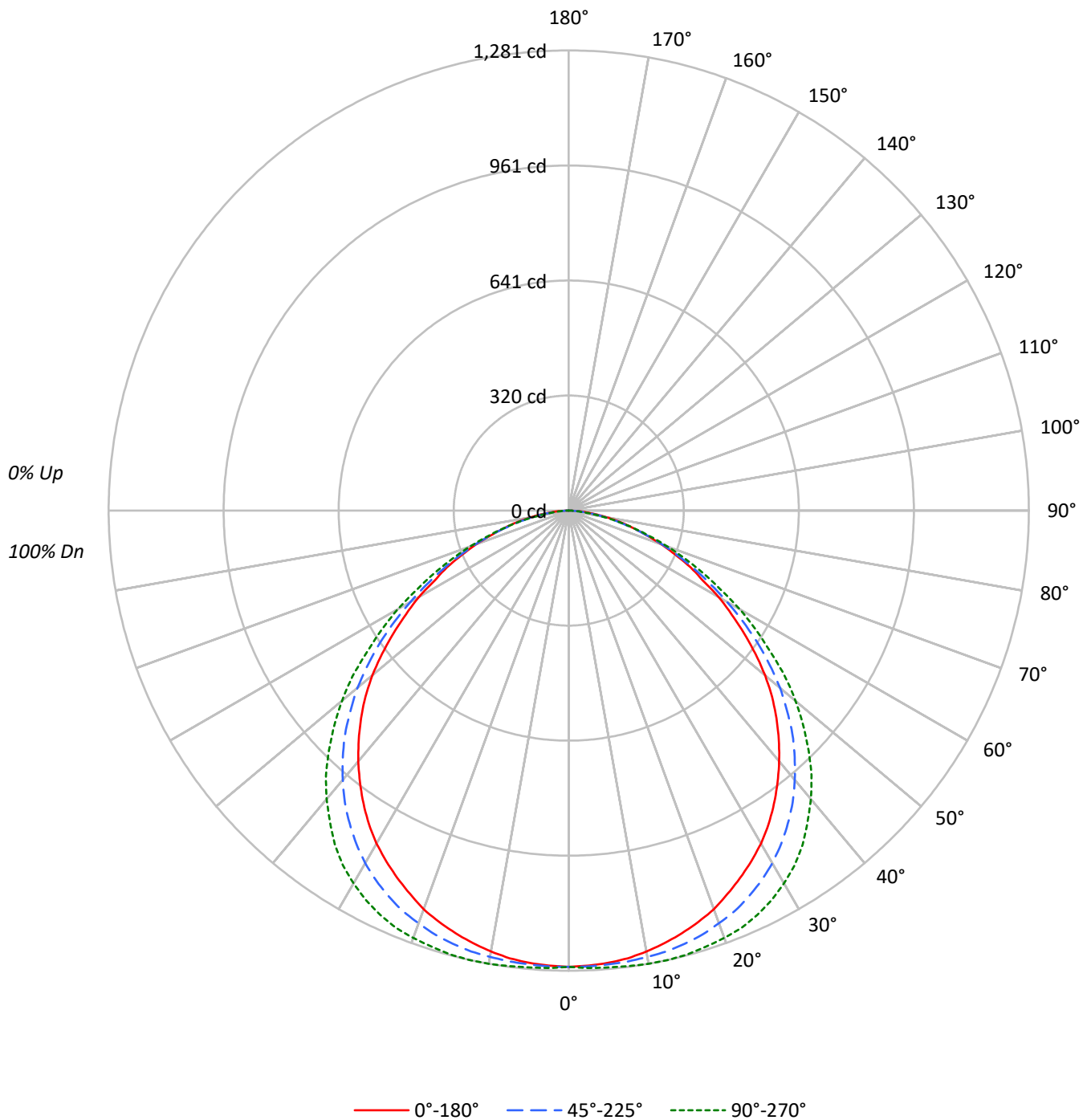
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	105	101	97	107	103	99	96		98	95	93			94	92	90			91
2	100	92	85	80	97	90	84	79		86	81	77			83	79	75			80
3	91	81	73	67	89	79	72	66		76	70	65			74	68	64			71
4	84	72	63	57	81	71	63	56		68	61	56			66	60	55			64
5	77	64	56	49	75	63	55	49		61	54	48			59	53	48			57
6	71	58	49	43	69	57	49	43		55	48	42			54	47	42			52
7	66	53	44	38	64	52	44	38		50	43	37			49	42	37			47
8	61	48	40	34	60	47	39	34		46	39	33			45	38	33			44
9	57	44	36	30	56	43	36	30		42	35	30			41	35	30			40
10	54	41	33	28	52	40	33	27		39	32	27			38	32	27			37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3418	3418	3418
5°	3414	3425	3449
10°	3406	3447	3501
15°	3393	3478	3563
20°	3382	3501	3625
25°	3352	3520	3687
30°	3325	3521	3724
35°	3273	3494	3730
40°	3201	3438	3683
45°	3112	3352	3593
50°	2987	3214	3451
55°	2796	3010	3214
60°	2599	2739	2962
65°	2382	2465	2632
70°	2157	2190	2293
75°	1900	1855	1922
80°	1652	1517	1449
85°	1343	1007	874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	3.4
10°-20°	352.7	9.9
20°-30°	546.4	15.4
30°-40°	665.0	18.7
40°-50°	677.3	19.0
50°-60°	571.2	16.1
60°-70°	386.4	10.9
70°-80°	193.1	5.4
80°-90°	43.0	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°	1020.1	28.7
0°-40°	1685.1	47.4
0°-60°	2933.6	82.5
0°-90°	3556.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1264	1266	1268	1275	1277	120
15°	1218	1227	1248	1270	1279	344
25°	1129	1146	1185	1224	1242	520
35°	996	1018	1064	1114	1135	623
45°	818	833	881	927	944	630
55°	596	605	642	672	685	533
65°	374	368	387	405	413	370
75°	183	176	178	180	185	196
85°	44	37	33	28	28	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1270.2	1270.2	1270.2	1270.2	1270.2
2.5°	1268.0	1268.0	1270.2	1272.4	1274.6
5°	1263.7	1265.9	1268.0	1274.6	1276.7
7.5°	1257.2	1259.3	1265.9	1274.6	1278.9
10°	1246.3	1250.6	1261.5	1274.6	1281.1
12.5°	1233.2	1239.8	1257.2	1272.4	1281.1
15°	1218.0	1226.7	1248.5	1270.2	1278.9
17.5°	1200.6	1211.5	1237.6	1261.5	1272.4
20°	1181.0	1194.1	1222.4	1252.8	1265.9
22.5°	1154.9	1172.3	1207.1	1241.9	1257.2
25°	1128.8	1146.2	1185.4	1224.5	1241.9
27.5°	1100.6	1120.1	1161.5	1205.0	1222.4
30°	1070.1	1087.5	1133.2	1178.9	1198.4
32.5°	1035.3	1052.7	1100.6	1148.4	1170.2
35°	996.2	1017.9	1063.6	1113.6	1135.4
37.5°	954.8	974.4	1024.4	1072.3	1091.9
40°	911.3	930.9	978.8	1028.8	1048.4
42.5°	865.7	885.2	930.9	978.8	1000.5
45°	817.8	833.0	880.9	926.6	944.0
47.5°	767.8	778.7	824.3	867.8	885.2
50°	713.4	724.3	767.8	806.9	824.3
52.5°	654.7	663.4	704.7	739.5	759.1
55°	596.0	604.7	641.6	672.1	685.1
57.5°	537.2	541.6	574.2	604.7	617.7
60°	482.9	482.9	509.0	532.9	550.3
62.5°	419.8	426.3	445.9	469.8	476.3
65°	374.1	367.6	387.2	404.6	413.3
67.5°	321.9	317.6	330.6	345.8	350.2
70°	274.1	267.5	278.4	287.1	291.5
72.5°	224.0	221.9	226.2	232.7	234.9
75°	182.7	176.2	178.4	180.5	184.9
77.5°	145.7	134.9	137.0	134.9	137.0
80°	106.6	97.9	97.9	95.7	93.5
82.5°	71.8	67.4	63.1	58.7	56.6
85°	43.5	37.0	32.6	28.3	28.3
87.5°	17.4	13.1	10.9	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)