

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: P296619

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296619
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-L82765-W2A1-U-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3550.0 lumens
Efficiency: N/A
Efficacy: 98.6 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

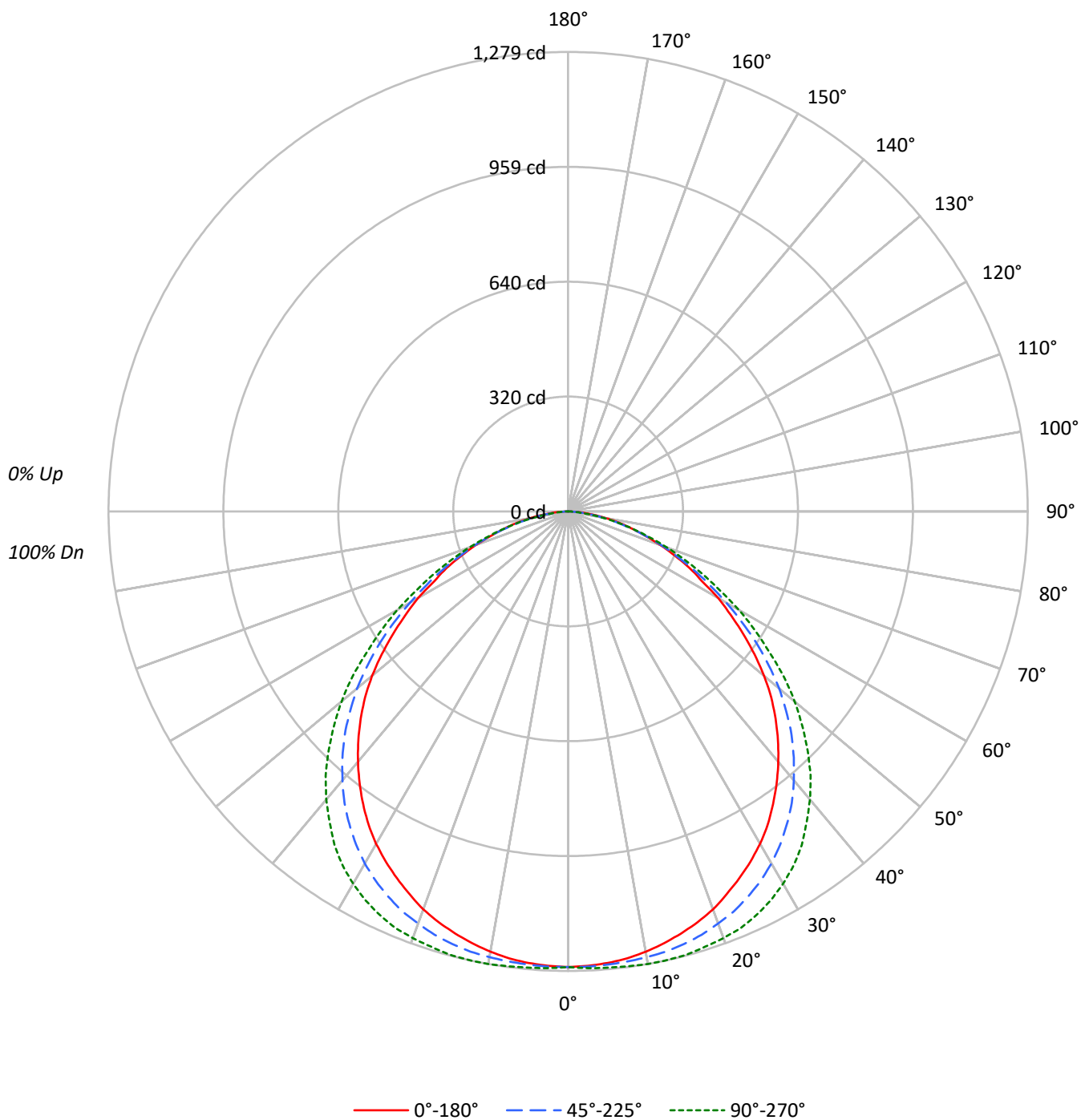
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		94	92	90		91	89	87
2	100	92	85	80	97	90	84	79		86	81	77		83	79	75		80	77	74
3	91	81	73	67	89	79	72	66		76	70	65		74	68	64		71	67	63
4	84	72	63	57	81	71	63	56		68	61	56		66	60	55		64	58	54
5	77	64	56	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		54	47	42		52	46	42
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	33		45	38	33		44	38	33
9	57	44	36	30	56	43	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	52	40	33	27		39	32	27		38	32	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3412	3412	3412
5°	3408	3420	3443
10°	3400	3441	3495
15°	3388	3472	3557
20°	3376	3495	3619
25°	3346	3514	3681
30°	3320	3515	3718
35°	3267	3488	3723
40°	3196	3432	3677
45°	3107	3347	3586
50°	2982	3209	3445
55°	2791	3005	3209
60°	2594	2735	2957
65°	2378	2461	2627
70°	2153	2186	2290
75°	1896	1852	1919
80°	1649	1514	1447
85°	1340	1007	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	3.4
10°-20°	352.1	9.9
20°-30°	545.5	15.4
30°-40°	663.9	18.7
40°-50°	676.2	19.0
50°-60°	570.2	16.1
60°-70°	385.7	10.9
70°-80°	192.8	5.4
80°-90°	42.9	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°	1018.3	28.7
0°-40°	1682.2	47.4
0°-60°	2928.6	82.5
0°-90°	3550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1268	1268	1268	1268	1268	
5°	1262	1264	1266	1272	1275	120
15°	1216	1225	1246	1268	1277	343
25°	1127	1144	1183	1222	1240	519
35°	994	1016	1062	1112	1133	622
45°	816	832	879	925	942	629
55°	595	604	641	671	684	532
65°	374	367	386	404	413	369
75°	182	176	178	180	185	195
85°	43	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°	1268.1	1268.1	1268.1	1268.1	1268.1
2.5°	1265.9	1265.9	1268.1	1270.2	1272.4
5°	1261.6	1263.7	1265.9	1272.4	1274.6
7.5°	1255.0	1257.2	1263.7	1272.4	1276.8
10°	1244.2	1248.5	1259.4	1272.4	1278.9
12.5°	1231.2	1237.7	1255.0	1270.2	1278.9
15°	1216.0	1224.6	1246.4	1268.1	1276.8
17.5°	1198.6	1209.4	1235.5	1259.4	1270.2
20°	1179.0	1192.1	1220.3	1250.7	1263.7
22.5°	1153.0	1170.4	1205.1	1239.8	1255.0
25°	1126.9	1144.3	1183.4	1222.5	1239.8
27.5°	1098.7	1118.2	1159.5	1202.9	1220.3
30°	1068.3	1085.7	1131.3	1176.9	1196.4
32.5°	1033.6	1050.9	1098.7	1146.5	1168.2
35°	994.5	1016.2	1061.8	1111.7	1133.4
37.5°	953.2	972.8	1022.7	1070.5	1090.0
40°	909.8	929.3	977.1	1027.1	1046.6
42.5°	864.2	883.7	929.3	977.1	998.8
45°	816.4	831.6	879.4	925.0	942.4
47.5°	766.5	777.3	822.9	866.4	883.7
50°	712.2	723.1	766.5	805.6	822.9
52.5°	653.6	662.3	703.5	738.3	757.8
55°	595.0	603.6	640.6	670.9	684.0
57.5°	536.3	540.7	573.2	603.6	616.7
60°	482.0	482.0	508.1	532.0	549.4
62.5°	419.1	425.6	445.1	469.0	475.5
65°	373.5	367.0	386.5	403.9	412.6
67.5°	321.4	317.0	330.0	345.2	349.6
70°	273.6	267.1	277.9	286.6	291.0
72.5°	223.6	221.5	225.8	232.3	234.5
75°	182.4	175.9	178.1	180.2	184.6
77.5°	145.5	134.6	136.8	134.6	136.8
80°	106.4	97.7	97.7	95.5	93.4
82.5°	71.7	67.3	63.0	58.6	56.5
85°	43.4	36.9	32.6	28.2	28.2
87.5°	17.4	13.0	10.9	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)