

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: P296564

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296564
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-LD5-40-RDP-UNV-L83050-W2A1-U-4500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3442.0 lumens
Efficiency: N/A
Efficacy: 102.2 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

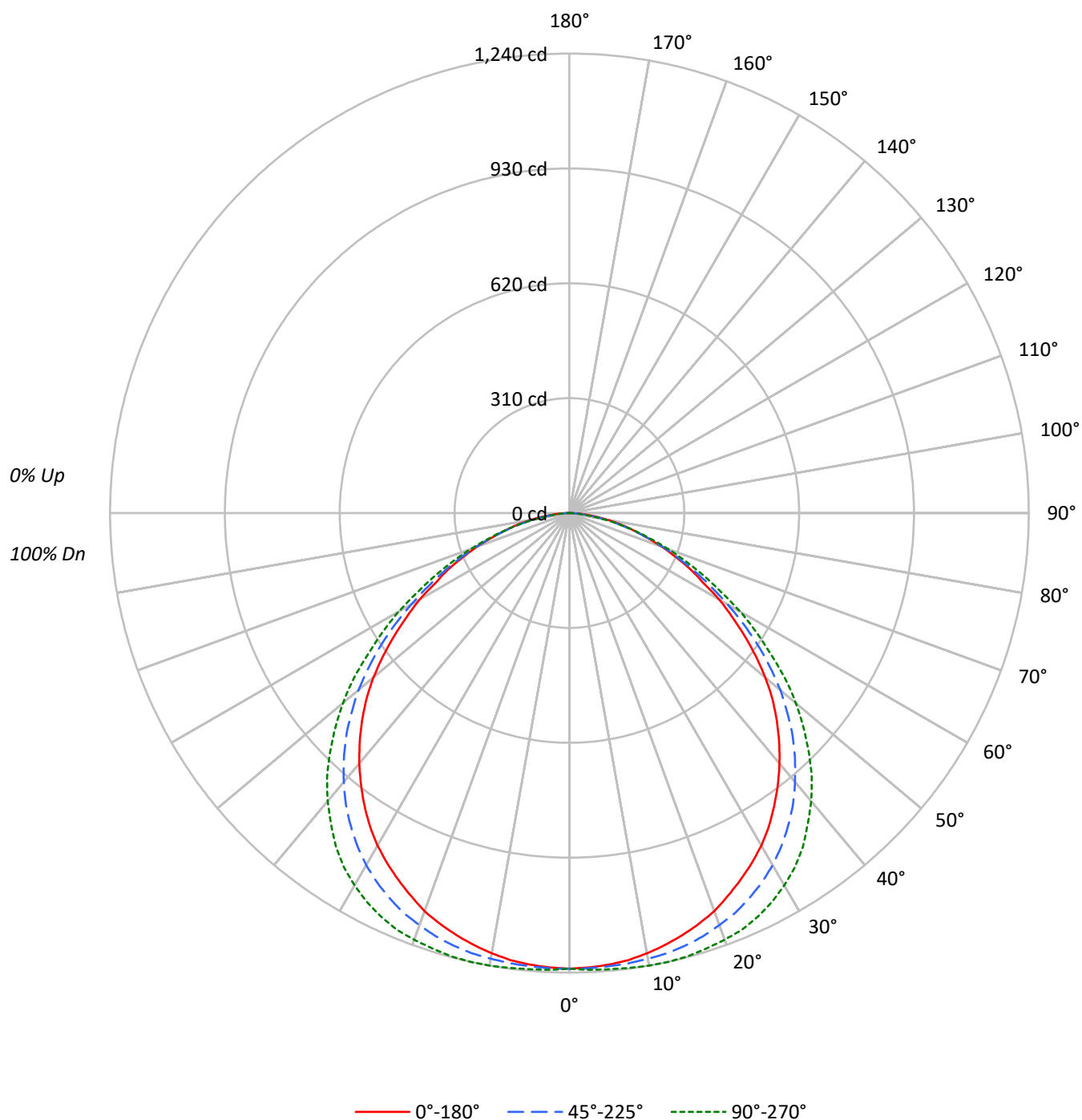
Input Watts (W): 33.666
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3309	3309	3309
5°	3304	3316	3338
10°	3296	3337	3388
15°	3285	3366	3449
20°	3274	3388	3509
25°	3244	3407	3569
30°	3219	3408	3604
35°	3167	3382	3610
40°	3099	3328	3565
45°	3013	3245	3477
50°	2891	3111	3340
55°	2707	2914	3111
60°	2516	2651	2866
65°	2306	2386	2547
70°	2087	2120	2220
75°	1838	1795	1861
80°	1599	1468	1402
85°	1300	976	846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	3.4
10°-20°	341.4	9.9
20°-30°	528.9	15.4
30°-40°	643.7	18.7
40°-50°	655.6	19.0
50°-60°	552.9	16.1
60°-70°	374.0	10.9
70°-80°	186.9	5.4
80°-90°	41.6	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°	987.4	28.7
0°-40°	1631.1	47.4
0°-60°	2839.6	82.5
0°-90°	3442.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3442.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1223	1225	1227	1234	1236	116
15°	1179	1187	1208	1230	1238	333
25°	1093	1110	1147	1185	1202	504
35°	964	985	1030	1078	1099	603
45°	792	806	853	897	914	610
55°	577	585	621	650	663	516
65°	362	356	375	392	400	358
75°	177	170	173	175	179	190
85°	42	36	32	27	27	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229.5	1229.5	1229.5	1229.5	1229.5
2.5°	1227.4	1227.4	1229.5	1231.6	1233.7
5°	1223.2	1225.3	1227.4	1233.7	1235.8
7.5°	1216.9	1219.0	1225.3	1233.7	1237.9
10°	1206.3	1210.5	1221.1	1233.7	1240.0
12.5°	1193.7	1200.0	1216.9	1231.6	1240.0
15°	1179.0	1187.4	1208.4	1229.5	1237.9
17.5°	1162.1	1172.7	1197.9	1221.1	1231.6
20°	1143.2	1155.8	1183.2	1212.7	1225.3
22.5°	1117.9	1134.8	1168.4	1202.1	1216.9
25°	1092.6	1109.5	1147.4	1185.3	1202.1
27.5°	1065.3	1084.2	1124.2	1166.3	1183.2
30°	1035.8	1052.6	1096.9	1141.1	1160.0
32.5°	1002.1	1019.0	1065.3	1111.6	1132.7
35°	964.2	985.3	1029.5	1077.9	1099.0
37.5°	924.2	943.2	991.6	1037.9	1056.9
40°	882.1	901.1	947.4	995.8	1014.8
42.5°	837.9	856.9	901.1	947.4	968.4
45°	791.6	806.3	852.6	896.9	913.7
47.5°	743.2	753.7	797.9	840.0	856.9
50°	690.5	701.1	743.2	781.1	797.9
52.5°	633.7	642.1	682.1	715.8	734.7
55°	576.9	585.3	621.1	650.5	663.2
57.5°	520.0	524.2	555.8	585.3	597.9
60°	467.4	467.4	492.6	515.8	532.6
62.5°	406.3	412.6	431.6	454.7	461.1
65°	362.1	355.8	374.7	391.6	400.0
67.5°	311.6	307.4	320.0	334.7	339.0
70°	265.3	259.0	269.5	277.9	282.1
72.5°	216.8	214.7	219.0	225.3	227.4
75°	176.8	170.5	172.6	174.7	179.0
77.5°	141.1	130.5	132.6	130.5	132.6
80°	103.2	94.7	94.7	92.6	90.5
82.5°	69.5	65.3	61.1	56.8	54.7
85°	42.1	35.8	31.6	27.4	27.4
87.5°	16.8	12.6	10.5	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)