

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: P296614

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296614
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-L82765-W2A1-U-5700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3385.0 lumens
Efficiency: N/A
Efficacy: 102.5 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

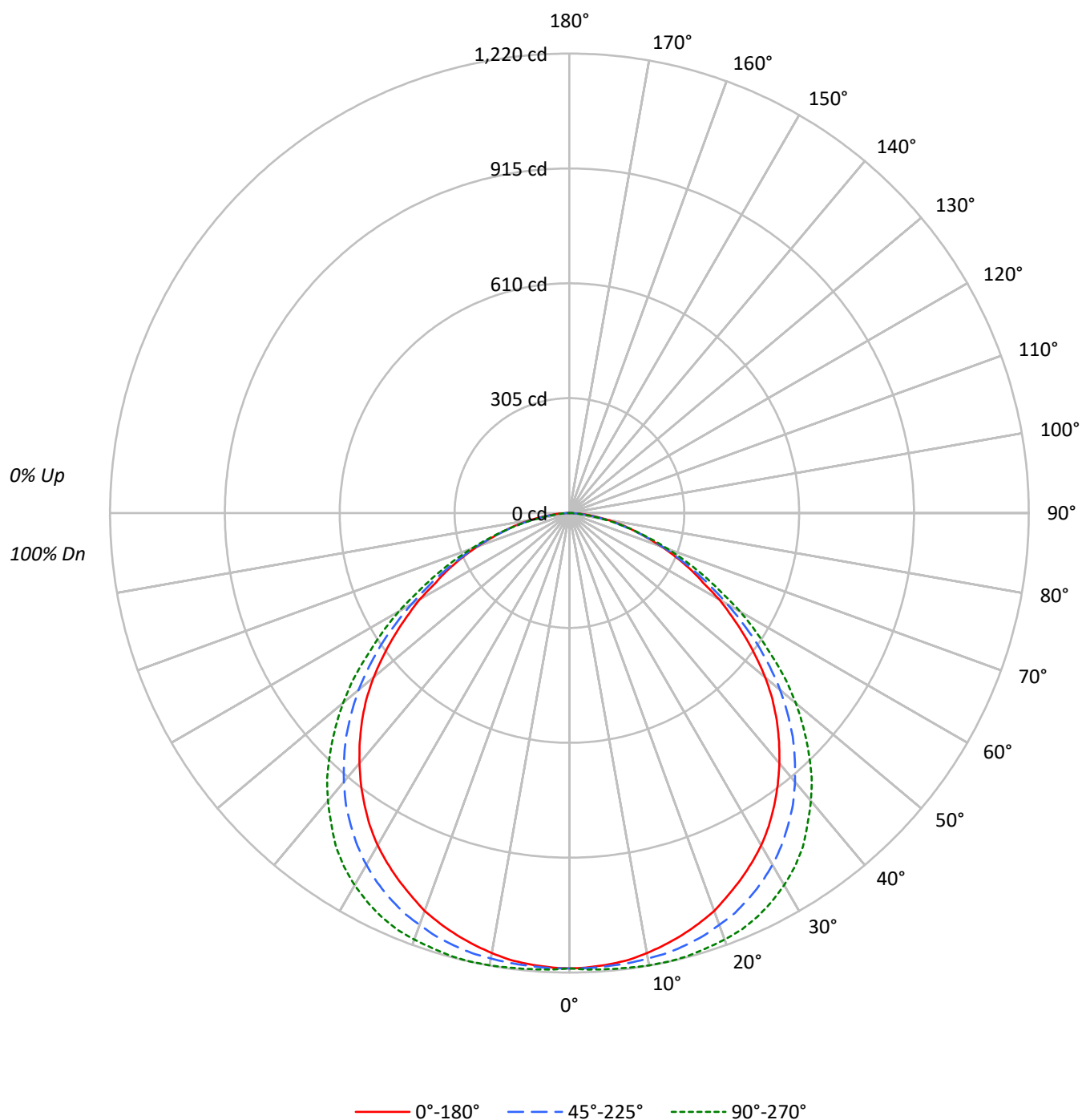
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3254	3254	3254
5°	3249	3261	3283
10°	3242	3281	3332
15°	3230	3311	3392
20°	3219	3332	3451
25°	3191	3350	3510
30°	3165	3352	3545
35°	3115	3326	3551
40°	3047	3273	3505
45°	2963	3191	3420
50°	2843	3060	3285
55°	2662	2866	3060
60°	2474	2608	2819
65°	2267	2346	2505
70°	2053	2085	2183
75°	1808	1765	1830
80°	1573	1444	1379
85°	1278	960	831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	3.4
10°-20°	335.7	9.9
20°-30°	520.1	15.4
30°-40°	633.0	18.7
40°-50°	644.7	19.0
50°-60°	543.7	16.1
60°-70°	367.8	10.9
70°-80°	183.8	5.4
80°-90°	40.9	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°	971.0	28.7
0°-40°	1604.1	47.4
0°-60°	2792.5	82.5
0°-90°	3385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3385.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1209	1209	1209	1209	1209	
5°	1203	1205	1207	1213	1215	114
15°	1159	1168	1188	1209	1217	327
25°	1075	1091	1128	1166	1182	495
35°	948	969	1012	1060	1081	593
45°	778	793	838	882	899	600
55°	567	576	611	640	652	508
65°	356	350	368	385	393	352
75°	174	168	170	172	176	186
85°	41	35	31	27	27	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1209.1	1209.1	1209.1	1209.1	1209.1
2.5°	1207.1	1207.1	1209.1	1211.2	1213.3
5°	1202.9	1205.0	1207.1	1213.3	1215.3
7.5°	1196.7	1198.8	1205.0	1213.3	1217.4
10°	1186.4	1190.5	1200.9	1213.3	1219.5
12.5°	1173.9	1180.1	1196.7	1211.2	1219.5
15°	1159.4	1167.7	1188.4	1209.1	1217.4
17.5°	1142.9	1153.2	1178.1	1200.9	1211.2
20°	1124.2	1136.7	1163.6	1192.6	1205.0
22.5°	1099.4	1116.0	1149.1	1182.2	1196.7
25°	1074.6	1091.1	1128.4	1165.7	1182.2
27.5°	1047.6	1066.3	1105.6	1147.0	1163.6
30°	1018.7	1035.2	1078.7	1122.2	1140.8
32.5°	985.5	1002.1	1047.6	1093.2	1113.9
35°	948.3	969.0	1012.4	1060.1	1080.8
37.5°	908.9	927.6	975.2	1020.7	1039.4
40°	867.5	886.1	931.7	979.3	997.9
42.5°	824.0	842.7	886.1	931.7	952.4
45°	778.5	793.0	838.5	882.0	898.6
47.5°	730.9	741.2	784.7	826.1	842.7
50°	679.1	689.5	730.9	768.1	784.7
52.5°	623.2	631.5	670.8	703.9	722.6
55°	567.3	575.6	610.8	639.8	652.2
57.5°	511.4	515.5	546.6	575.6	588.0
60°	459.6	459.6	484.5	507.3	523.8
62.5°	399.6	405.8	424.4	447.2	453.4
65°	356.1	349.9	368.5	385.1	393.4
67.5°	306.4	302.3	314.7	329.2	333.3
70°	260.9	254.7	265.0	273.3	277.4
72.5°	213.3	211.2	215.3	221.5	223.6
75°	173.9	167.7	169.8	171.8	176.0
77.5°	138.7	128.4	130.4	128.4	130.4
80°	101.5	93.2	93.2	91.1	89.0
82.5°	68.3	64.2	60.0	55.9	53.8
85°	41.4	35.2	31.1	26.9	26.9
87.5°	16.6	12.4	10.4	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)