

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: P296615

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296615
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-6500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3394.0 lumens
Efficiency: N/A
Efficacy: 101.4 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

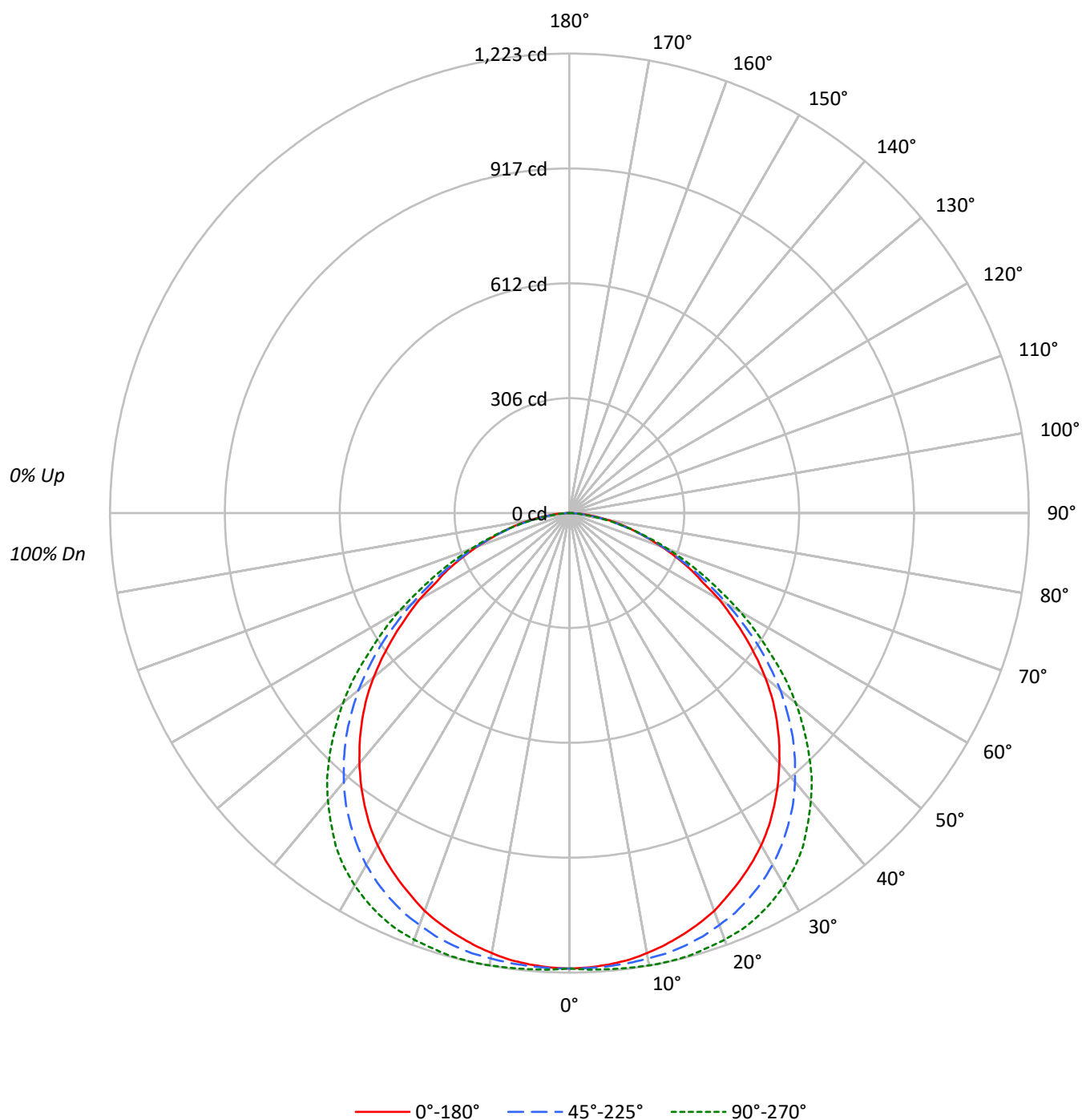
Input Watts (W): 33.48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3262	3262	3262
5°	3258	3269	3292
10°	3250	3290	3341
15°	3239	3320	3401
20°	3228	3341	3460
25°	3199	3359	3520
30°	3174	3361	3554
35°	3123	3335	3560
40°	3055	3282	3515
45°	2971	3200	3429
50°	2851	3068	3294
55°	2669	2873	3068
60°	2481	2615	2827
65°	2274	2353	2511
70°	2058	2090	2189
75°	1813	1770	1835
80°	1576	1447	1384
85°	1281	960	834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	3.4
10°-20°	336.6	9.9
20°-30°	521.5	15.4
30°-40°	634.7	18.7
40°-50°	646.5	19.0
50°-60°	545.2	16.1
60°-70°	368.8	10.9
70°-80°	184.3	5.4
80°-90°	41.0	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°	973.6	28.7
0°-40°	1608.3	47.4
0°-60°	2799.9	82.5
0°-90°	3394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3394.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1212	1212	1212	1212	1212	
5°	1206	1208	1210	1216	1219	115
15°	1162	1171	1192	1212	1221	328
25°	1077	1094	1131	1169	1185	497
35°	951	972	1015	1063	1084	594
45°	781	795	841	884	901	601
55°	569	577	612	642	654	509
65°	357	351	370	386	394	353
75°	174	168	170	172	176	187
85°	42	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°	1212.3	1212.3	1212.3	1212.3	1212.3
2.5°	1210.3	1210.3	1212.3	1214.4	1216.5
5°	1206.1	1208.2	1210.3	1216.5	1218.6
7.5°	1199.9	1202.0	1208.2	1216.5	1220.7
10°	1189.5	1193.7	1204.0	1216.5	1222.7
12.5°	1177.1	1183.3	1199.9	1214.4	1222.7
15°	1162.5	1170.8	1191.6	1212.3	1220.7
17.5°	1145.9	1156.3	1181.2	1204.0	1214.4
20°	1127.2	1139.7	1166.7	1195.7	1208.2
22.5°	1102.3	1118.9	1152.1	1185.4	1199.9
25°	1077.4	1094.0	1131.4	1168.8	1185.4
27.5°	1050.4	1069.1	1108.6	1150.1	1166.7
30°	1021.4	1038.0	1081.6	1125.2	1143.8
32.5°	988.1	1004.8	1050.4	1096.1	1116.9
35°	950.8	971.5	1015.1	1062.9	1083.6
37.5°	911.3	930.0	977.8	1023.4	1042.1
40°	869.8	888.5	934.2	981.9	1000.6
42.5°	826.2	844.9	888.5	934.2	954.9
45°	780.6	795.1	840.8	884.3	901.0
47.5°	732.8	743.2	786.8	828.3	844.9
50°	680.9	691.3	732.8	770.2	786.8
52.5°	624.9	633.2	672.6	705.8	724.5
55°	568.8	577.1	612.4	641.5	653.9
57.5°	512.8	516.9	548.0	577.1	589.6
60°	460.9	460.9	485.8	508.6	525.2
62.5°	400.7	406.9	425.6	448.4	454.6
65°	357.1	350.8	369.5	386.1	394.4
67.5°	307.2	303.1	315.5	330.1	334.2
70°	261.6	255.3	265.7	274.0	278.2
72.5°	213.8	211.7	215.9	222.1	224.2
75°	174.4	168.2	170.2	172.3	176.5
77.5°	139.1	128.7	130.8	128.7	130.8
80°	101.7	93.4	93.4	91.3	89.3
82.5°	68.5	64.4	60.2	56.1	54.0
85°	41.5	35.3	31.1	27.0	27.0
87.5°	16.6	12.5	10.4	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)