

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: P731917

Luminaire Tested: **14CZ2-44-HRP-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-HRP-B2750-W2D-3000K
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

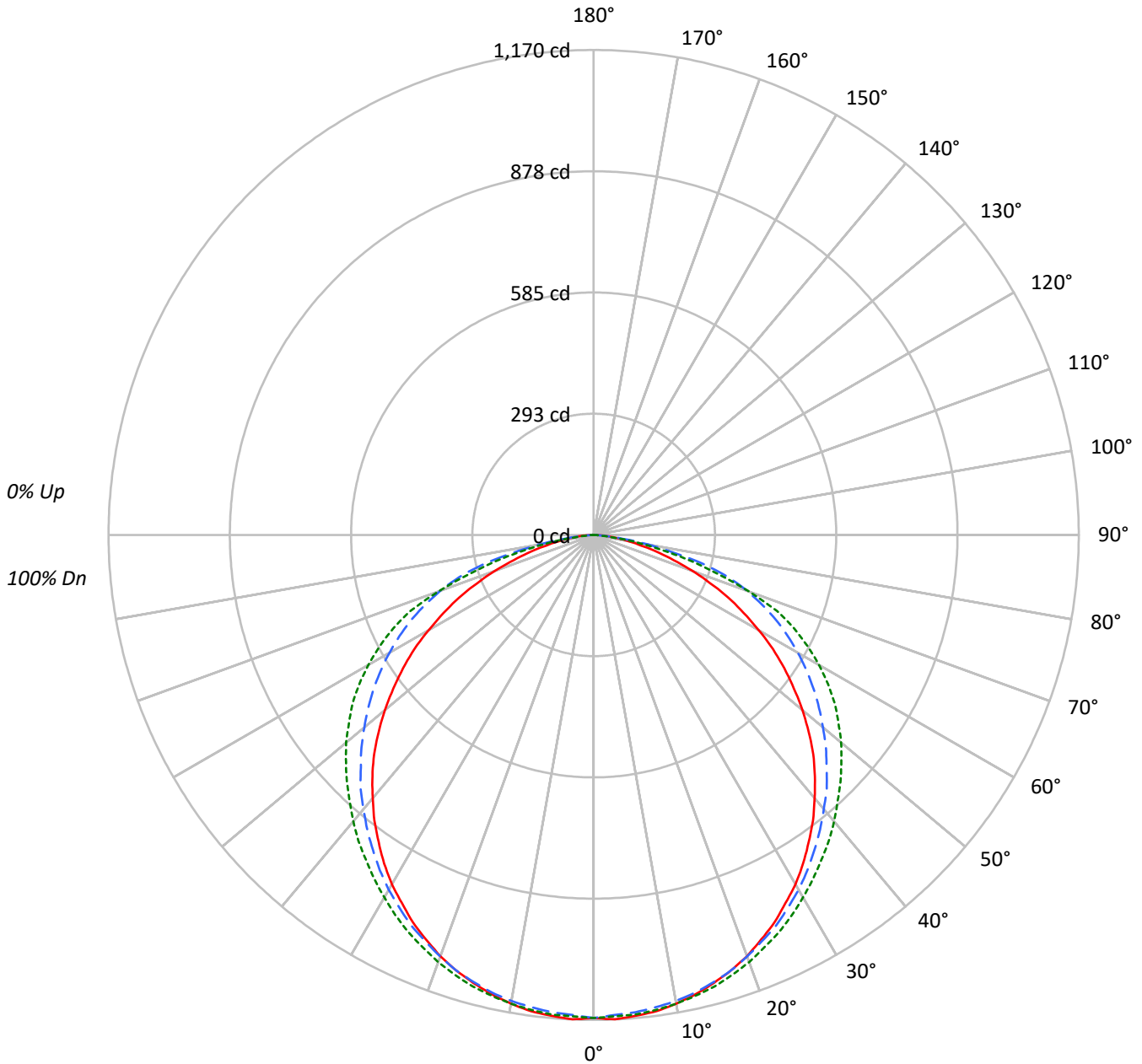
Lumens per Lamp: N/A
Luminaire Lumens: 3432.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 36
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P731917

CATALOG NUMBER: 14CZ2-44-HRP-B2750-W2D-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P731917

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84																			
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69																			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37																			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33																			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3290	3290	3290
5°	3300	3275	3290
10°	3291	3273	3291
15°	3271	3264	3295
20°	3248	3251	3294
25°	3214	3240	3294
30°	3173	3222	3292
35°	3116	3198	3299
40°	3054	3181	3324
45°	2990	3170	3360
50°	2886	3170	3422
55°	2762	3187	3495
60°	2595	3210	3540
65°	2393	3243	3561
70°	2085	3250	3277
75°	1719	3026	2648
80°	1349	2175	1772
85°	1053	839	415



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	3.2
10°-20°	316.6	9.2
20°-30°	480.8	14.0
30°-40°	582.6	17.0
40°-50°	613.9	17.9
50°-60°	573.1	16.7
60°-70°	458.0	13.3
70°-80°	252.0	7.3
80°-90°	44.5	1.3
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°	907.8	26.5
0°-40°	1490.4	43.4
0°-60°	2677.4	78.0
0°-90°	3432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3432.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1165	1165	1165	1165	1165	
5°	1165	1161	1156	1164	1161	111
15°	1119	1119	1117	1128	1128	316
25°	1032	1034	1040	1055	1058	475
35°	904	913	928	952	957	566
45°	749	763	794	830	842	576
55°	561	589	648	693	710	501
65°	358	404	486	526	533	353
75°	158	226	278	249	243	170
85°	32	41	26	16	13	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1165.4	1165.4	1165.4	1165.4	1165.4
2.5°	1169.8	1166.5	1159.1	1165.4	1162.4
5°	1164.6	1161.3	1155.8	1163.5	1161.3
7.5°	1159.1	1154.7	1149.3	1158.0	1155.8
10°	1148.2	1144.9	1141.9	1149.3	1148.2
12.5°	1135.3	1134.3	1131.0	1139.7	1138.6
15°	1119.2	1119.2	1117.0	1127.7	1127.7
17.5°	1101.8	1100.7	1101.8	1113.8	1112.7
20°	1081.3	1081.3	1082.4	1096.6	1096.6
22.5°	1056.4	1057.5	1060.8	1078.0	1076.9
25°	1031.8	1033.7	1040.3	1055.3	1057.5
27.5°	1001.5	1007.0	1014.4	1032.7	1034.8
30°	973.4	976.7	988.4	1005.9	1010.0
32.5°	940.1	946.3	959.5	978.8	984.3
35°	904.3	913.0	928.0	951.8	957.3
37.5°	868.8	876.4	896.9	921.5	931.3
40°	828.9	841.7	863.3	891.5	902.1
42.5°	789.9	803.0	832.2	861.1	871.0
45°	748.9	763.1	794.2	830.0	841.7
47.5°	703.5	719.9	759.8	797.5	810.3
50°	657.1	677.6	721.8	764.2	779.2
52.5°	608.8	634.4	685.2	729.5	743.7
55°	561.3	589.1	647.6	692.9	710.1
57.5°	512.6	543.0	608.8	660.4	670.2
60°	459.7	496.5	568.6	614.0	627.1
62.5°	408.0	450.1	527.7	570.8	581.7
65°	358.3	403.7	485.6	525.5	533.1
67.5°	304.3	358.3	439.2	476.0	478.0
70°	252.6	315.2	393.8	411.0	397.1
72.5°	201.8	268.7	341.1	326.9	315.2
75°	157.6	225.6	277.5	249.4	242.8
77.5°	116.6	184.6	198.6	183.5	171.5
80°	83.0	145.6	133.8	114.4	109.0
82.5°	57.1	91.8	73.5	57.1	49.7
85°	32.5	41.0	25.9	16.1	12.8
87.5°	13.9	9.8	5.5	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)