

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: P842966

Luminaire Tested: **22CZ2-44HE-HRP-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294823)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-HRP-UNV-B40
Description: 2X2 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

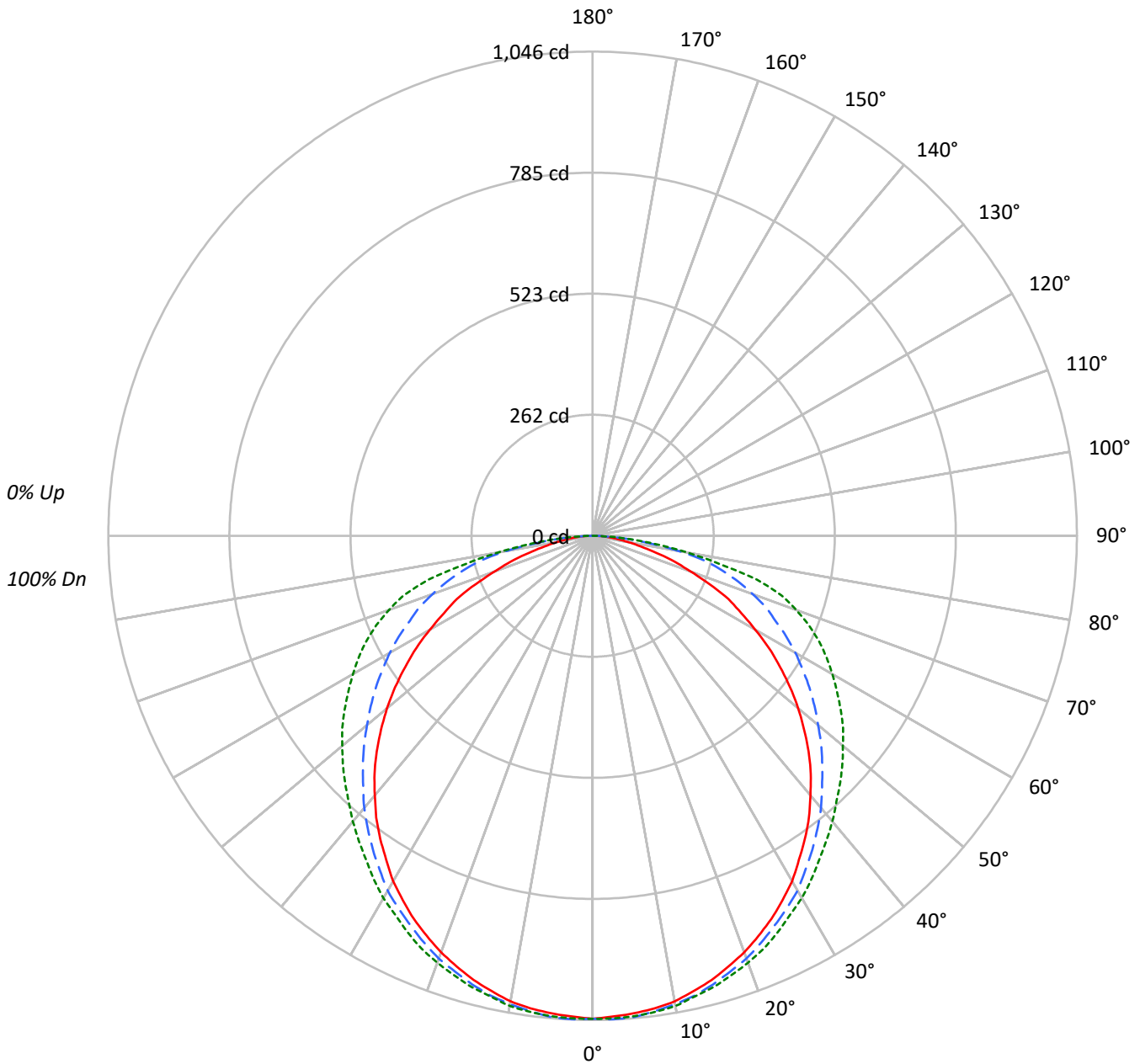
Lumens per Lamp: N/A
Luminaire Lumens: 3169.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82																			
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2961	2961	2961
5°	2949	2972	2967
10°	2943	2961	2972
15°	2919	2948	2965
20°	2892	2934	2964
25°	2860	2910	2960
30°	2823	2901	2961
35°	2770	2867	2957
40°	2710	2843	2984
45°	2648	2815	3033
50°	2559	2807	3116
55°	2443	2829	3234
60°	2304	2870	3392
65°	2175	2925	3624
70°	1857	3051	3880
75°	1556	3178	4032
80°	1275	3070	3363
85°	1110	2279	2471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	3.1
10°-20°	282.9	8.9
20°-30°	428.7	13.5
30°-40°	517.7	16.3
40°-50°	544.0	17.2
50°-60°	511.9	16.2
60°-70°	426.8	13.5
70°-80°	282.8	8.9
80°-90°	75.4	2.4
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°	810.5	25.6
0°-40°	1328.3	41.9
0°-60°	2384.1	75.2
0°-90°	3169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1036	1037	1044	1044	1042	98
15°	994	998	1004	1008	1009	280
25°	914	920	930	942	946	421
35°	800	808	828	846	854	500
45°	660	670	702	738	756	508
55°	494	516	572	630	654	442
65°	324	352	436	508	540	315
75°	142	198	290	350	368	154
85°	34	52	70	76	76	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1043.5	1043.5	1043.5	1043.5	1043.5
2.5°	1039.5	1041.6	1045.6	1045.6	1043.5
5°	1035.5	1037.4	1043.5	1043.5	1041.6
7.5°	1029.5	1031.6	1035.5	1039.5	1037.4
10°	1021.5	1023.4	1027.6	1031.6	1031.6
12.5°	1007.5	1009.4	1017.6	1019.4	1019.4
15°	993.5	997.5	1003.6	1007.5	1009.4
17.5°	975.6	979.5	987.5	995.6	995.6
20°	957.6	961.6	971.6	979.5	981.6
22.5°	935.7	941.5	951.5	961.6	965.5
25°	913.5	919.6	929.6	941.5	945.5
27.5°	887.6	893.6	907.7	921.7	923.5
30°	861.7	867.5	885.5	897.6	903.7
32.5°	829.7	837.6	855.6	873.6	879.6
35°	799.6	807.5	827.6	845.6	853.5
37.5°	767.6	775.6	797.7	819.7	829.7
40°	731.7	741.7	767.6	791.7	805.7
42.5°	697.6	707.6	733.5	765.8	779.5
45°	659.8	669.6	701.6	737.7	755.7
47.5°	619.6	631.8	669.6	713.7	731.7
50°	579.7	593.7	635.8	685.7	705.8
52.5°	537.7	555.7	603.8	657.7	681.7
55°	493.9	515.8	571.8	629.7	653.7
57.5°	451.8	471.7	537.7	599.8	625.7
60°	405.9	431.8	505.8	569.7	597.7
62.5°	361.8	389.8	471.7	539.8	569.7
65°	323.9	351.7	435.7	507.9	539.8
67.5°	273.8	311.8	405.9	473.8	505.8
70°	223.8	275.9	367.8	437.8	467.7
72.5°	186.0	236.0	329.8	399.8	427.8
75°	141.9	197.9	289.9	349.9	367.8
77.5°	106.0	163.8	247.9	278.0	279.8
80°	78.0	126.0	187.9	197.9	205.8
82.5°	53.9	88.0	121.8	134.0	137.9
85°	34.1	52.0	70.0	75.9	75.9
87.5°	18.0	20.1	24.0	24.0	24.0
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)