

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: P842996

Luminaire Tested: **24CZ2-30HE-HRP-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30HE-HRP-UNV-B40
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

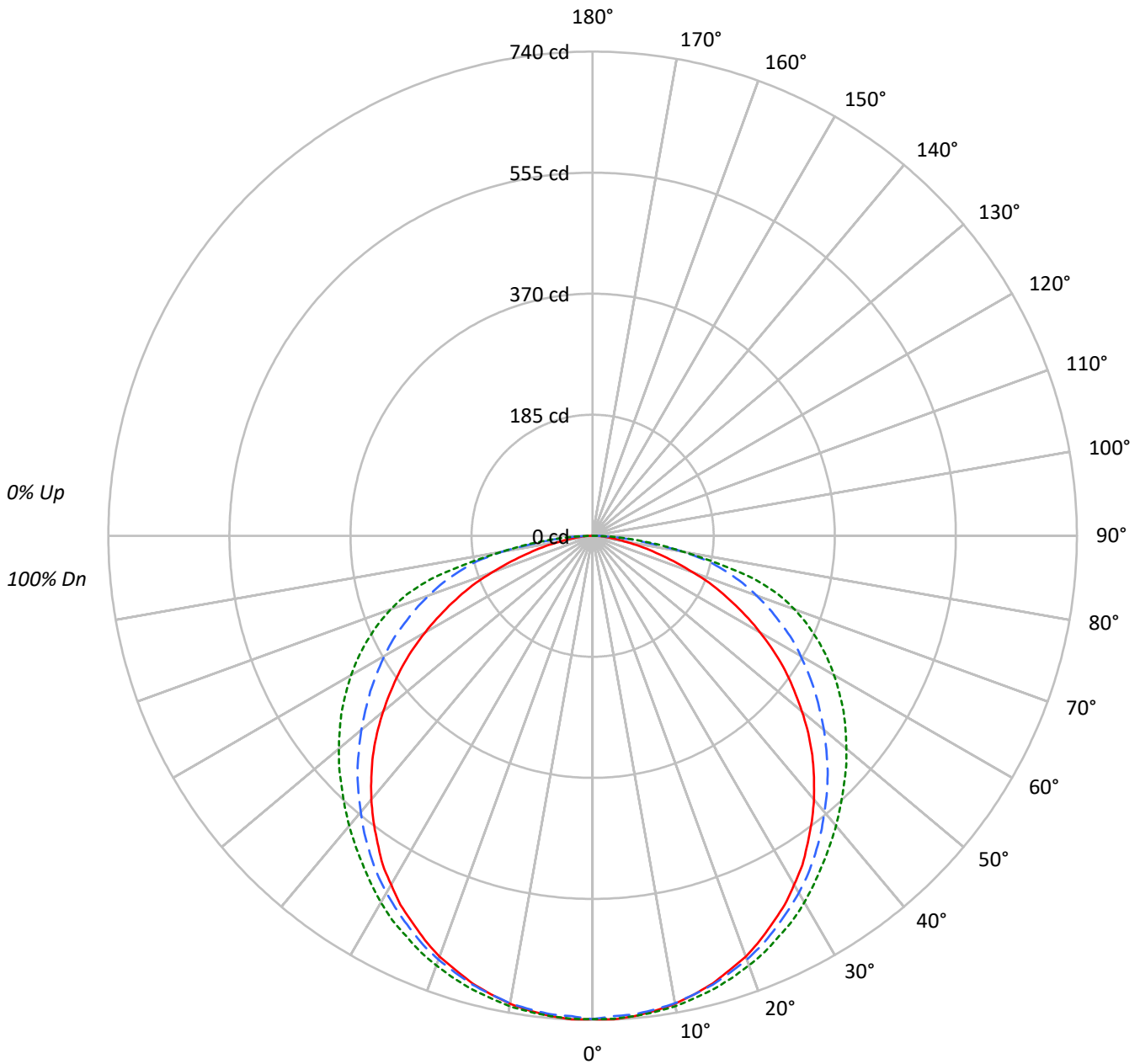
Lumens per Lamp: N/A
Luminaire Lumens: 2277.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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					20					
RC	80					70					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	86	84	82								
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67								
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56								
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	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	38	50	43	38	49	42	38	36								
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31								
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28								
9	55	41	33	27	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	24	35	29	24	23								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1043	1043	1043
5°	1044	1040	1044
10°	1041	1040	1046
15°	1035	1038	1047
20°	1028	1035	1049
25°	1015	1030	1051
30°	1004	1027	1055
35°	987	1022	1056
40°	969	1015	1066
45°	947	1014	1083
50°	917	1013	1111
55°	884	1020	1152
60°	834	1036	1202
65°	770	1060	1270
70°	673	1098	1353
75°	546	1154	1398
80°	402	1131	1131
85°	309	834	941



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	3.1
10°-20°	201.0	8.8
20°-30°	305.9	13.4
30°-40°	371.5	16.3
40°-50°	392.5	17.2
50°-60°	370.3	16.3
60°-70°	307.9	13.5
70°-80°	202.6	8.9
80°-90°	55.2	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°	576.9	25.3
0°-40°	948.4	41.7
0°-60°	1711.2	75.2
0°-90°	2277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	739	739	739	739	739	
5°	737	737	734	737	737	70
15°	708	709	710	717	717	200
25°	652	656	662	673	675	301
35°	573	580	593	608	613	359
45°	475	484	508	533	542	366
55°	359	375	415	454	468	320
65°	231	257	318	364	380	228
75°	100	146	212	251	256	108
85°	19	42	52	57	58	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	738.8	738.8	738.8	738.8	738.8
2.5°	739.7	738.8	734.9	738.8	738.8
5°	736.9	736.9	734.0	736.9	736.9
7.5°	732.1	732.1	730.2	734.0	734.0
10°	726.4	726.4	725.4	730.2	730.2
12.5°	717.8	718.8	717.8	723.5	723.5
15°	708.3	709.2	710.2	716.9	716.9
17.5°	695.9	697.8	699.7	707.3	708.3
20°	684.5	685.4	689.2	697.8	698.7
22.5°	669.1	672.1	676.8	685.4	688.2
25°	652.0	655.8	661.6	673.0	674.9
27.5°	635.8	638.7	646.3	658.6	662.5
30°	615.8	620.6	630.1	642.5	647.2
32.5°	596.7	601.5	612.9	626.3	630.1
35°	572.9	579.5	593.0	608.2	612.9
37.5°	550.1	556.7	572.9	590.0	595.8
40°	526.1	533.8	551.0	571.0	578.6
42.5°	500.4	510.9	530.0	552.0	560.6
45°	474.7	484.3	508.1	532.9	542.4
47.5°	447.0	458.5	484.3	513.8	525.2
50°	417.6	431.8	461.4	493.8	506.2
52.5°	388.0	404.1	437.5	473.8	487.1
55°	359.3	374.6	414.6	453.8	468.0
57.5°	328.0	346.9	390.8	432.8	447.0
60°	295.5	316.5	367.0	410.8	426.0
62.5°	263.1	286.9	344.1	388.0	404.1
65°	230.7	257.3	317.5	364.2	380.3
67.5°	199.2	228.8	292.6	339.4	355.5
70°	163.0	200.2	266.0	311.7	328.0
72.5°	129.7	172.6	240.3	283.2	297.4
75°	100.1	145.8	211.6	250.7	256.4
77.5°	73.4	119.2	182.0	195.5	196.4
80°	49.5	95.4	139.2	137.2	139.2
82.5°	32.4	71.4	87.7	98.2	99.1
85°	19.1	42.0	51.5	57.2	58.1
87.5°	9.5	14.3	18.2	19.1	21.0
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)