

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: P842927

Luminaire Tested: **22CZ2-29HE-S-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272009)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-29HE-S-UNV-B40
Description: 2X2 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

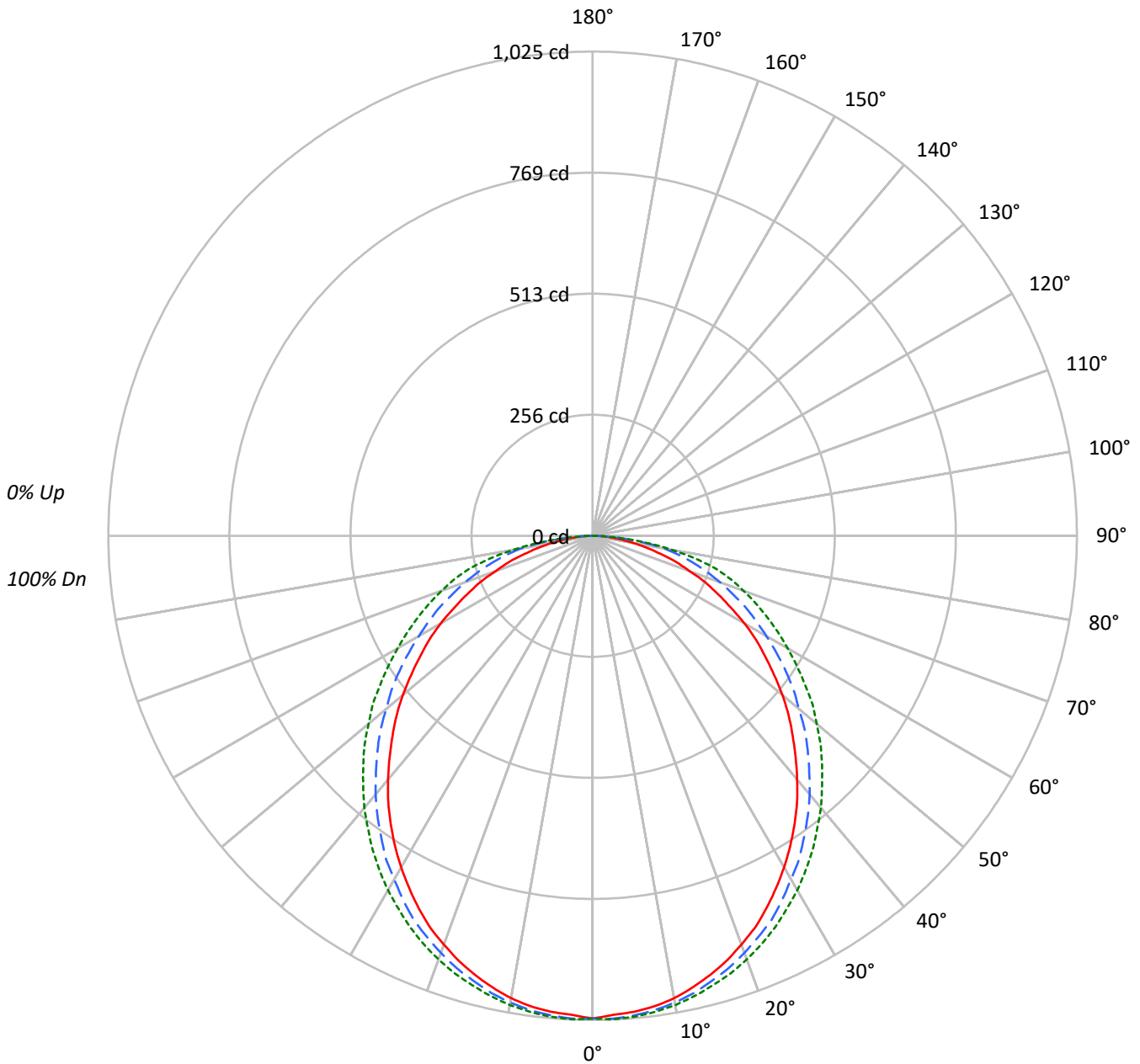
Lumens per Lamp: N/A
Luminaire Lumens: 2852.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 25
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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69																			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58																			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49																			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43																			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37																			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2900	2900	2900
5°	2881	2903	2911
10°	2864	2891	2906
15°	2827	2865	2893
20°	2780	2837	2881
25°	2725	2808	2862
30°	2656	2751	2838
35°	2581	2701	2812
40°	2494	2647	2785
45°	2403	2584	2756
50°	2314	2514	2732
55°	2205	2469	2712
60°	2107	2409	2704
65°	1966	2394	2734
70°	1810	2374	2815
75°	1634	2406	2962
80°	1412	2479	2783
85°	1169	2077	2077



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	3.4
10°-20°	275.0	9.6
20°-30°	411.5	14.4
30°-40°	487.4	17.1
40°-50°	496.7	17.4
50°-60°	445.1	15.6
60°-70°	348.5	12.2
70°-80°	224.7	7.9
80°-90°	66.4	2.3
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°	783.2	27.5
0°-40°	1270.6	44.6
0°-60°	2212.4	77.6
0°-90°	2852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1011	1014	1019	1021	1022	96
15°	962	968	975	983	985	271
25°	870	878	897	909	914	401
35°	745	754	780	804	812	466
45°	599	612	644	677	687	462
55°	446	460	499	534	548	400
65°	293	310	357	391	407	291
75°	149	172	220	257	270	160
85°	36	49	64	64	64	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1022.0	1022.0	1022.0	1022.0	1022.0
2.5°	1015.2	1018.0	1023.3	1024.7	1024.7
5°	1011.4	1014.0	1019.2	1020.7	1022.0
7.5°	1004.7	1005.9	1012.7	1015.2	1016.7
10°	994.1	996.6	1003.4	1007.4	1008.7
12.5°	979.3	983.3	991.3	996.6	998.1
15°	962.2	967.5	975.3	983.3	984.8
17.5°	943.4	948.8	959.4	968.7	971.5
20°	920.8	927.5	939.4	950.1	954.1
22.5°	898.2	903.5	918.2	931.5	935.5
25°	870.3	878.3	896.9	908.9	914.2
27.5°	840.9	850.2	869.0	884.9	890.2
30°	810.5	819.8	839.6	859.7	866.3
32.5°	778.4	789.1	813.0	833.1	839.6
35°	745.2	754.5	779.8	803.7	811.7
37.5°	710.6	718.6	747.9	773.1	781.1
40°	673.4	683.9	714.6	743.9	751.8
42.5°	636.0	648.0	678.6	710.6	718.6
45°	598.8	612.1	644.0	677.4	686.7
47.5°	562.9	573.4	609.5	641.4	654.7
50°	524.2	535.0	569.6	605.5	618.8
52.5°	484.3	499.0	536.2	570.9	586.8
55°	445.8	460.4	499.0	533.7	548.3
57.5°	409.9	421.7	461.7	497.6	512.3
60°	371.2	382.0	424.5	463.1	476.4
62.5°	330.0	345.9	389.8	425.8	441.8
65°	292.8	310.0	356.6	391.3	407.2
67.5°	258.2	274.1	319.4	356.6	374.0
70°	218.2	239.6	286.1	323.3	339.3
72.5°	186.3	204.9	252.9	290.1	307.4
75°	149.0	171.6	219.5	256.9	270.2
77.5°	118.5	141.1	186.3	215.5	222.3
80°	86.4	109.0	151.7	166.3	170.3
82.5°	58.5	79.9	109.0	113.1	114.5
85°	35.9	49.2	63.8	63.8	63.8
87.5°	17.3	19.9	22.6	21.3	21.3
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)