

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: P843001

Luminaire Tested: **24CZ2-30HE-S-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30HE-S-UNV-B35
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

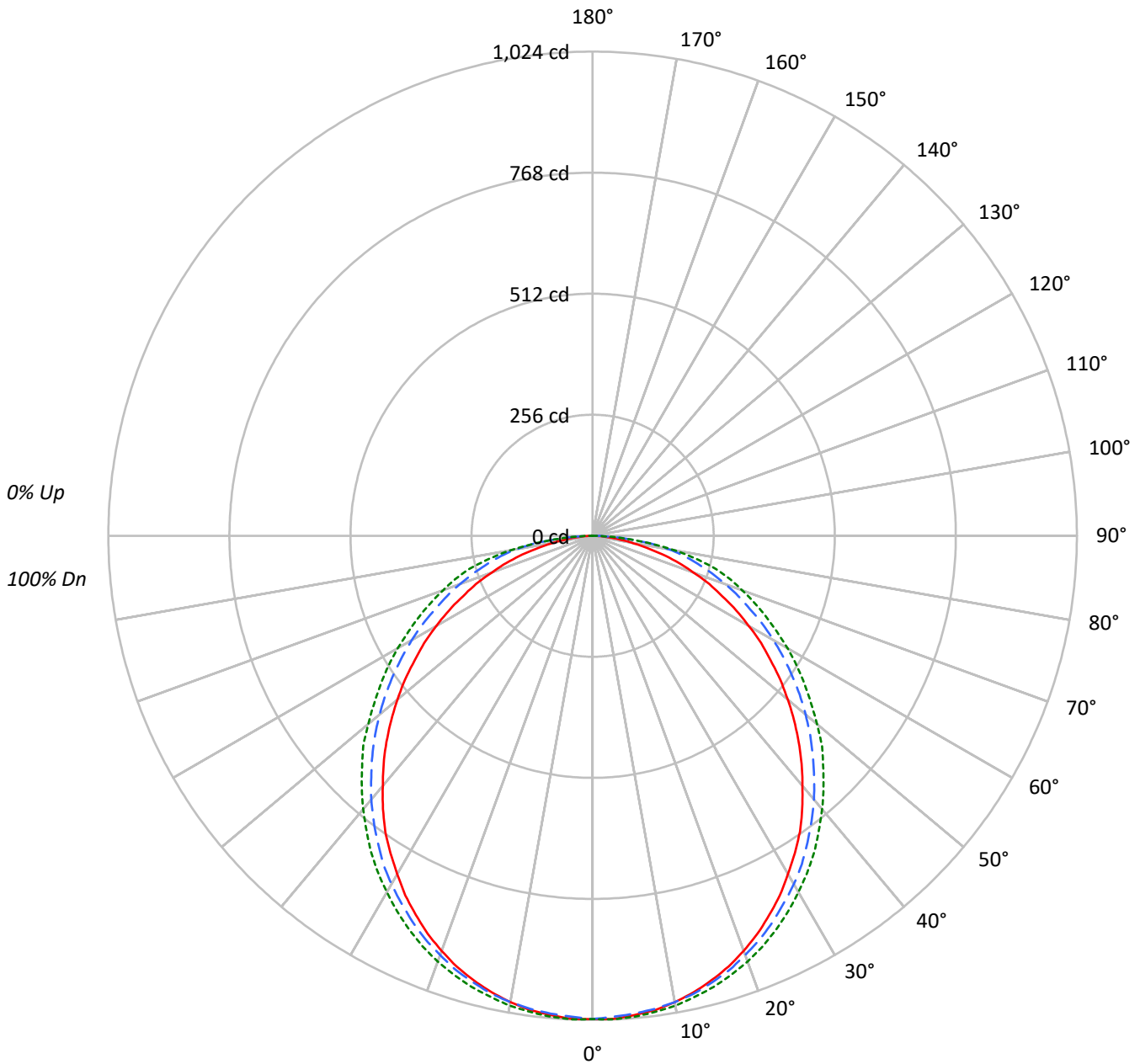
Lumens per Lamp: N/A
Luminaire Lumens: 2909.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	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	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1442	1442	1442
5°	1441	1437	1446
10°	1435	1435	1446
15°	1422	1428	1443
20°	1403	1417	1439
25°	1377	1403	1430
30°	1346	1387	1418
35°	1317	1364	1407
40°	1272	1341	1391
45°	1230	1315	1376
50°	1183	1290	1359
55°	1130	1266	1346
60°	1077	1246	1343
65°	1009	1225	1352
70°	934	1232	1388
75°	836	1255	1466
80°	676	1329	1435
85°	508	1166	1137



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	3.3
10°-20°	276.4	9.5
20°-30°	415.6	14.3
30°-40°	495.0	17.0
40°-50°	506.6	17.4
50°-60°	456.1	15.7
60°-70°	358.2	12.3
70°-80°	232.5	8.0
80°-90°	71.9	2.5
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°	788.7	27.1
0°-40°	1283.8	44.1
0°-60°	2246.5	77.2
0°-90°	2909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2909.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1017	1019	1014	1020	1021	97
15°	973	976	978	986	988	274
25°	884	892	901	916	918	407
35°	764	773	792	811	817	477
45°	616	631	659	684	689	475
55°	459	480	515	542	547	412
65°	302	325	367	397	405	301
75°	153	183	230	262	269	162
85°	31	58	72	70	70	38
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°	1022.9	1022.9	1018.2	1022.9	1023.8
5°	1017.3	1019.2	1014.5	1020.1	1021.0
7.5°	1011.8	1011.8	1009.0	1014.5	1015.5
10°	1001.6	1002.5	1001.6	1008.1	1009.0
12.5°	988.7	990.5	991.5	998.0	998.8
15°	973.0	975.8	977.6	985.9	987.8
17.5°	955.4	958.2	962.8	972.0	973.9
20°	934.2	937.8	943.4	955.4	958.2
22.5°	911.1	914.8	924.0	935.1	939.7
25°	884.3	891.6	900.9	915.7	918.5
27.5°	857.5	863.9	875.9	891.6	895.4
30°	826.1	836.2	851.0	866.7	870.4
32.5°	795.6	805.7	823.3	840.0	844.5
35°	764.2	773.4	791.9	811.3	816.8
37.5°	728.1	740.1	760.5	779.9	785.4
40°	690.2	705.0	728.1	748.5	754.9
42.5°	654.2	669.9	693.0	715.2	722.5
45°	616.3	631.1	658.8	683.8	689.3
47.5°	577.5	594.2	623.7	648.6	657.8
50°	538.7	556.3	587.7	613.5	619.1
52.5°	499.9	518.3	551.6	579.4	582.1
55°	459.2	479.6	514.7	541.5	547.1
57.5°	422.3	439.9	477.7	505.4	511.9
60°	381.6	401.0	441.6	467.6	475.8
62.5°	342.8	363.2	405.7	431.5	438.9
65°	302.1	325.3	366.8	397.3	404.7
67.5°	267.1	289.2	333.5	363.2	370.5
70°	226.3	251.4	298.5	329.0	336.3
72.5°	191.3	217.1	264.3	293.8	304.9
75°	153.4	182.9	230.1	261.5	268.9
77.5°	116.4	150.6	198.6	222.7	222.7
80°	83.2	119.2	163.5	174.7	176.5
82.5°	54.6	89.6	121.0	120.1	120.1
85°	31.4	58.2	72.0	70.2	70.2
87.5°	12.0	24.0	25.8	25.8	24.9
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)