

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: P843085

Luminaire Tested: **24CZ2-45HE-HRP-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843085
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: 24CZ2-45HE-HRP-UNV-B35
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

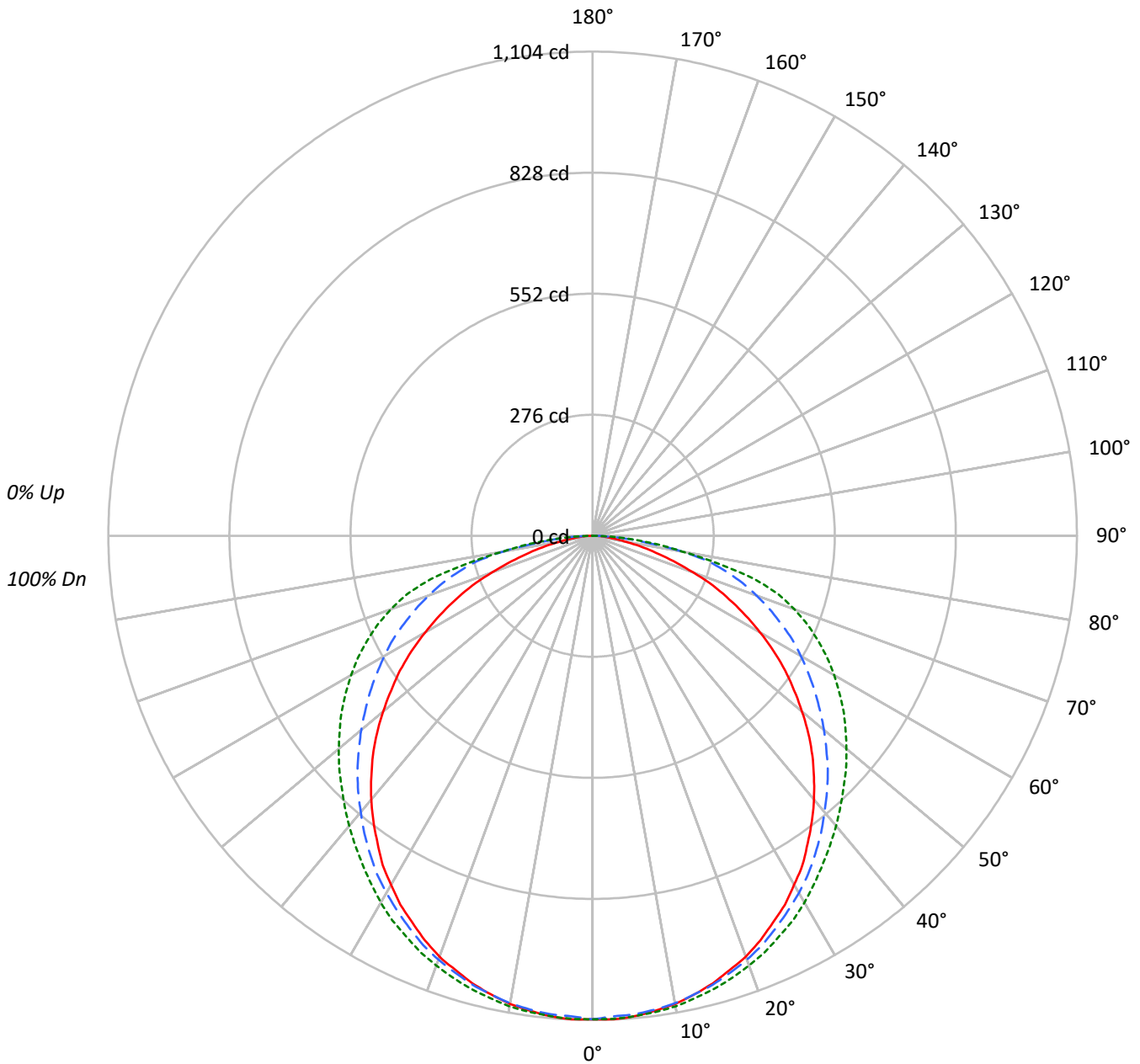
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3398.0 lumens
Efficiency: N/A
Efficacy: 103.0 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): 33
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: P843085
CATALOG NUMBER: 24CZ2-45HE-HRP-UNV-B35

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°	1556	1556	1556
5°	1558	1552	1558
10°	1554	1551	1562
15°	1544	1549	1563
20°	1534	1545	1566
25°	1515	1537	1568
30°	1498	1532	1574
35°	1473	1525	1576
40°	1447	1515	1591
45°	1414	1513	1616
50°	1368	1512	1659
55°	1319	1522	1718
60°	1245	1546	1795
65°	1150	1582	1895
70°	1004	1638	2019
75°	815	1722	2086
80°	601	1689	1689
85°	462	1245	1404



TEST NUMBER: P843085

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.1
10°-20°	299.9	8.8
20°-30°	456.6	13.4
30°-40°	554.4	16.3
40°-50°	585.7	17.2
50°-60°	552.7	16.3
60°-70°	459.5	13.5
70°-80°	302.4	8.9
80°-90°	82.4	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°	860.9	25.3
0°-40°	1415.3	41.7
0°-60°	2553.7	75.2
0°-90°	3398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3398.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1100	1100	1095	1100	1100	104
15°	1057	1058	1060	1070	1070	298
25°	973	979	987	1004	1007	449
35°	855	865	885	908	915	535
45°	708	723	758	795	809	546
55°	536	559	619	677	698	478
65°	344	384	474	543	568	340
75°	149	218	316	374	383	161
85°	28	63	77	85	87	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.5	1102.5	1102.5	1102.5	1102.5
2.5°	1103.9	1102.5	1096.7	1102.5	1102.5
5°	1099.7	1099.7	1095.3	1099.7	1099.7
7.5°	1092.5	1092.5	1089.7	1095.3	1095.3
10°	1084.1	1084.1	1082.5	1089.7	1089.7
12.5°	1071.2	1072.6	1071.2	1079.7	1079.7
15°	1057.0	1058.4	1059.8	1069.8	1069.8
17.5°	1038.5	1041.3	1044.1	1055.6	1057.0
20°	1021.4	1022.8	1028.5	1041.3	1042.7
22.5°	998.6	1003.0	1010.0	1022.8	1027.1
25°	973.0	978.7	987.3	1004.4	1007.2
27.5°	948.8	953.2	964.4	982.9	988.7
30°	919.0	926.1	940.3	958.8	965.8
32.5°	890.5	897.6	914.6	934.7	940.3
35°	855.0	864.9	884.9	907.6	914.6
37.5°	820.9	830.7	855.0	880.5	889.1
40°	785.2	796.6	822.3	852.2	863.4
42.5°	746.8	762.5	791.0	823.7	836.5
45°	708.5	722.7	758.2	795.2	809.4
47.5°	667.1	684.2	722.7	766.7	783.7
50°	623.1	644.4	688.6	737.0	755.4
52.5°	579.0	603.1	652.9	707.0	726.9
55°	536.2	559.1	618.7	677.1	698.4
57.5°	489.4	517.7	583.2	645.8	667.1
60°	441.0	472.4	547.7	613.1	635.8
62.5°	392.7	428.2	513.5	579.0	603.1
65°	344.3	384.0	473.8	543.4	567.5
67.5°	297.3	341.5	436.6	506.5	530.6
70°	243.3	298.7	396.9	465.1	489.4
72.5°	193.5	257.6	358.5	422.6	443.9
75°	149.4	217.6	315.8	374.2	382.6
77.5°	109.6	177.9	271.6	291.7	293.1
80°	73.9	142.3	207.8	204.8	207.8
82.5°	48.4	106.6	130.9	146.5	148.0
85°	28.5	62.6	76.9	85.3	86.7
87.5°	14.2	21.3	27.1	28.5	31.3
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)