

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: P843090

Luminaire Tested: **24CZ2-45HE-RDP-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-45HE-RDP-UNV-B50
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

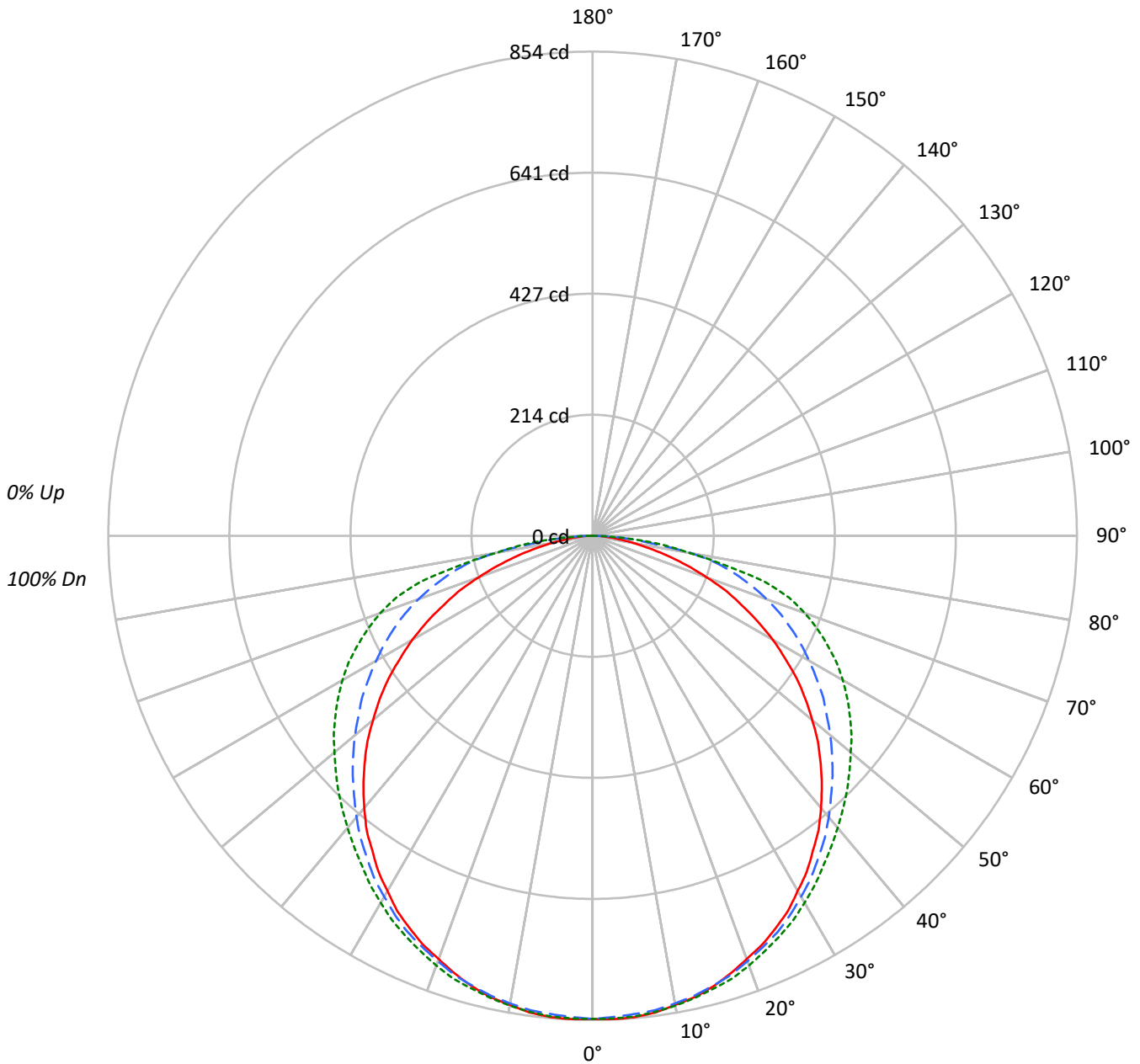
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2710.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
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 (Ain): 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	100	96	92	96	93	89	92	89	87	88	86	84	82			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1203	1203	1203
5°	1207	1200	1205
10°	1204	1200	1206
15°	1202	1200	1208
20°	1193	1199	1211
25°	1189	1201	1214
30°	1179	1198	1218
35°	1167	1195	1223
40°	1154	1193	1238
45°	1135	1194	1266
50°	1110	1201	1305
55°	1082	1220	1363
60°	1036	1245	1438
65°	969	1288	1526
70°	882	1348	1642
75°	748	1422	1716
80°	590	1430	1387
85°	436	1090	1218



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	3.0
10°-20°	232.7	8.6
20°-30°	355.8	13.1
30°-40°	434.9	16.0
40°-50°	463.6	17.1
50°-60°	443.2	16.4
60°-70°	375.5	13.9
70°-80°	252.3	9.3
80°-90°	71.2	2.6
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°	669.3	24.7
0°-40°	1104.2	40.7
0°-60°	2011.0	74.2
0°-90°	2710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2710.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	852	851	847	851	851	81
15°	823	823	821	828	827	232
25°	764	766	772	778	780	352
35°	678	683	694	707	710	424
45°	569	578	598	624	634	439
55°	440	456	496	535	554	392
65°	290	320	386	437	457	288
75°	137	187	261	305	315	147
85°	27	55	67	73	75	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	852.2	852.2	852.2	852.2	852.2
2.5°	853.5	853.5	849.5	852.2	852.2
5°	852.2	850.9	846.9	850.9	850.9
7.5°	848.2	846.9	844.1	848.2	846.9
10°	840.1	840.1	837.5	841.5	841.5
12.5°	833.4	832.1	830.7	836.0	834.7
15°	822.7	822.7	821.3	828.1	826.6
17.5°	809.3	810.6	811.9	817.2	818.7
20°	794.4	797.1	798.4	806.5	806.5
22.5°	780.9	782.4	785.0	793.1	793.1
25°	763.6	766.2	771.5	778.3	779.6
27.5°	746.1	747.4	754.2	763.6	764.9
30°	723.2	727.3	735.2	746.1	747.4
32.5°	702.9	707.0	716.4	727.3	729.9
35°	677.5	682.9	693.5	707.0	709.8
37.5°	654.6	658.7	672.2	686.9	691.0
40°	626.4	634.4	647.8	665.3	672.2
42.5°	598.2	606.2	622.4	645.2	653.4
45°	568.6	578.0	598.2	623.7	634.4
47.5°	539.1	549.8	572.6	602.1	614.3
50°	505.4	518.8	547.0	580.7	594.2
52.5°	473.1	489.3	520.3	557.9	575.4
55°	439.6	455.6	496.0	535.0	553.8
57.5°	402.0	423.4	467.8	512.2	532.3
60°	367.0	387.1	440.9	489.3	509.4
62.5°	329.4	356.3	414.0	465.0	485.3
65°	290.3	319.9	385.8	436.8	457.1
67.5°	255.4	287.7	357.6	408.6	428.9
70°	213.8	254.0	326.6	377.7	397.9
72.5°	174.7	219.1	294.3	344.1	362.9
75°	137.1	186.9	260.8	305.2	314.6
77.5°	102.1	154.6	225.8	244.6	237.9
80°	72.6	123.7	176.0	166.6	170.7
82.5°	47.0	94.2	108.9	123.7	127.7
85°	26.9	55.1	67.3	72.6	75.2
87.5°	12.2	20.1	26.9	26.9	25.6
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)