

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: P843027

Luminaire Tested: **24CZ2-35HE-HRP-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843027
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: 24CZ2-35HE-HRP-UNV-B50
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

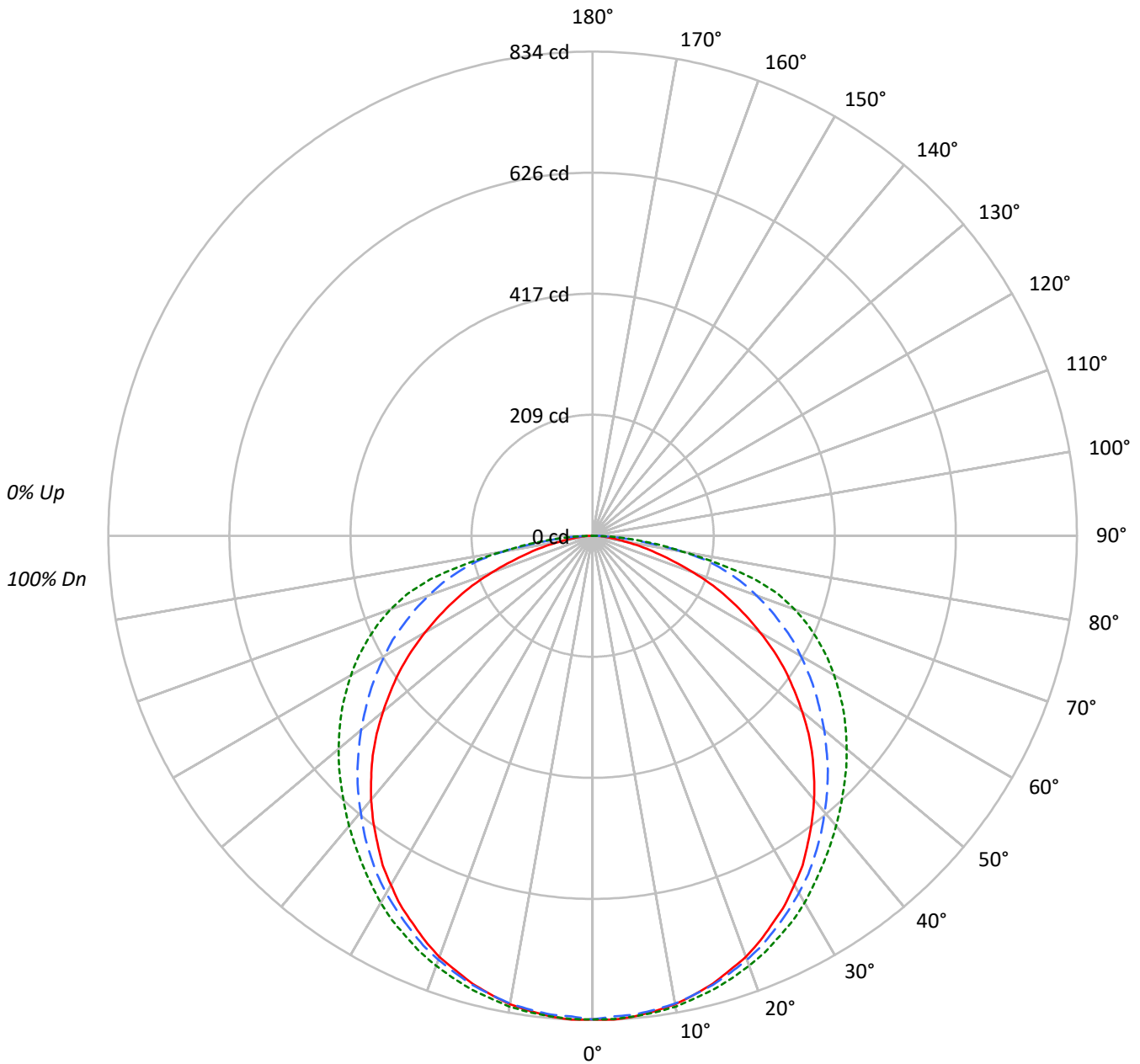
Lumens per Lamp: N/A
Luminaire Lumens: 2568.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 26
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	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°	1176	1176	1176
5°	1177	1173	1177
10°	1174	1172	1180
15°	1167	1170	1181
20°	1159	1167	1184
25°	1145	1162	1185
30°	1132	1158	1189
35°	1113	1152	1191
40°	1093	1145	1202
45°	1069	1144	1221
50°	1034	1143	1253
55°	997	1151	1299
60°	941	1168	1356
65°	869	1196	1432
70°	759	1238	1526
75°	616	1302	1577
80°	454	1276	1276
85°	348	941	1061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	3.1
10°-20°	226.7	8.8
20°-30°	345.0	13.4
30°-40°	419.0	16.3
40°-50°	442.6	17.2
50°-60°	417.7	16.3
60°-70°	347.3	13.5
70°-80°	228.5	8.9
80°-90°	62.3	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°	650.6	25.3
0°-40°	1069.6	41.7
0°-60°	1929.9	75.2
0°-90°	2568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2568.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	831	831	828	831	831	79
15°	799	800	801	808	808	225
25°	735	740	746	759	761	339
35°	646	654	669	686	691	404
45°	535	546	573	601	612	412
55°	405	422	468	512	528	361
65°	260	290	358	411	429	257
75°	113	164	239	283	289	122
85°	22	47	58	64	66	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	833.2	833.2	833.2	833.2	833.2
2.5°	834.3	833.2	828.8	833.2	833.2
5°	831.1	831.1	827.8	831.1	831.1
7.5°	825.6	825.6	823.5	827.8	827.8
10°	819.3	819.3	818.1	823.5	823.5
12.5°	809.6	810.6	809.6	815.9	815.9
15°	798.8	799.9	800.9	808.5	808.5
17.5°	784.8	787.0	789.1	797.7	798.8
20°	771.9	773.0	777.2	787.0	788.0
22.5°	754.6	758.0	763.3	773.0	776.2
25°	735.4	739.6	746.1	759.0	761.2
27.5°	717.0	720.3	728.9	742.8	747.2
30°	694.6	699.9	710.6	724.6	729.9
32.5°	673.0	678.3	691.2	706.4	710.6
35°	646.2	653.6	668.8	685.9	691.2
37.5°	620.4	627.8	646.2	665.4	671.9
40°	593.4	602.0	621.4	644.0	652.5
42.5°	564.4	576.2	597.8	622.5	632.2
45°	535.4	546.2	573.0	601.0	611.7
47.5°	504.2	517.1	546.2	579.4	592.3
50°	470.9	487.0	520.4	556.9	570.9
52.5°	437.6	455.8	493.4	534.3	549.4
55°	405.2	422.5	467.6	511.7	527.8
57.5°	369.9	391.3	440.7	488.1	504.2
60°	333.3	357.0	413.9	463.3	480.5
62.5°	296.8	323.6	388.1	437.6	455.8
65°	260.2	290.2	358.0	410.7	428.9
67.5°	224.7	258.1	330.0	382.8	401.0
70°	183.9	225.8	299.9	351.5	369.9
72.5°	146.2	194.6	271.0	319.4	335.4
75°	112.9	164.5	238.7	282.8	289.2
77.5°	82.8	134.4	205.3	220.4	221.5
80°	55.8	107.6	157.0	154.8	157.0
82.5°	36.6	80.6	98.9	110.8	111.8
85°	21.5	47.3	58.1	64.5	65.5
87.5°	10.8	16.1	20.5	21.5	23.7
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)