

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: P880841

Luminaire Tested: **24CZ2-35VHE-S-B2750-W2D-5000K**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P880841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473969)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35VHE-S-B2750-W2D-5000K
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

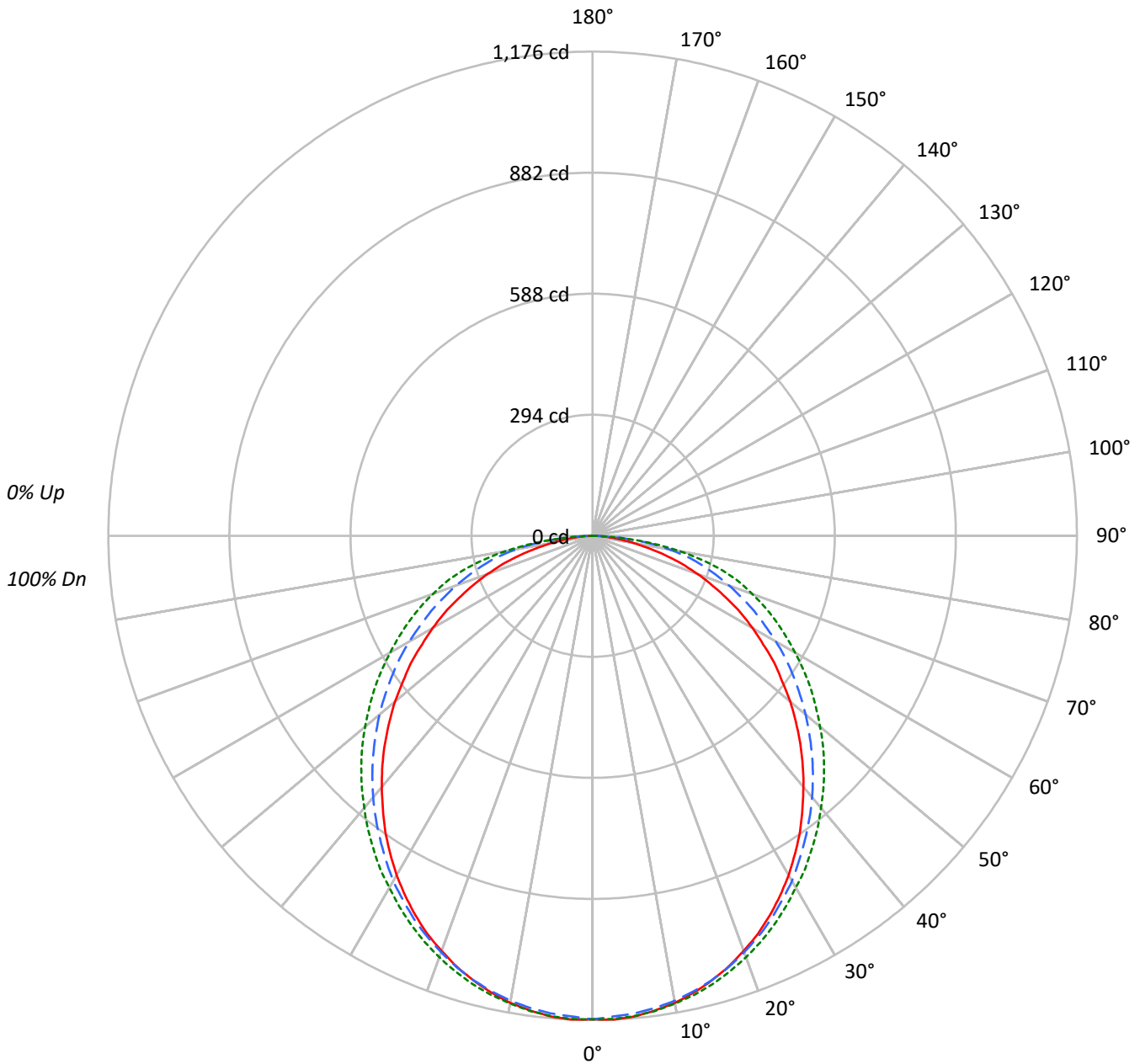
Lumens per Lamp: N/A
Luminaire Lumens: 3365.0 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 27
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									
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	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68																			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57																			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1658	1658	1658
5°	1660	1650	1659
10°	1651	1644	1653
15°	1634	1633	1647
20°	1611	1616	1636
25°	1584	1598	1623
30°	1551	1578	1608
35°	1512	1550	1599
40°	1467	1528	1590
45°	1423	1504	1586
50°	1375	1483	1583
55°	1326	1465	1591
60°	1265	1451	1602
65°	1198	1445	1641
70°	1117	1453	1699
75°	995	1495	1790
80°	813	1527	1747
85°	573	1334	1360



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	3.3
10°-20°	316.3	9.4
20°-30°	474.1	14.1
30°-40°	564.6	16.8
40°-50°	582.2	17.3
50°-60°	531.3	15.8
60°-70°	424.8	12.6
70°-80°	277.5	8.2
80°-90°	83.3	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°	901.4	26.8
0°-40°	1466.0	43.6
0°-60°	2579.4	76.7
0°-90°	3365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3365.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1172	1170	1164	1172	1171	111
15°	1118	1119	1118	1127	1127	315
25°	1018	1019	1026	1041	1042	468
35°	878	884	900	922	928	548
45°	713	726	753	785	795	550
55°	539	554	595	634	647	480
65°	359	383	433	475	491	356
75°	182	213	274	318	328	194
85°	35	64	82	84	84	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1174.6	1174.6	1174.6	1174.6	1174.6
2.5°	1176.2	1174.6	1168.4	1175.7	1174.6
5°	1171.8	1169.5	1164.5	1171.8	1170.7
7.5°	1162.9	1161.8	1156.8	1165.1	1164.0
10°	1151.9	1150.8	1146.9	1155.2	1153.5
12.5°	1136.4	1135.9	1133.1	1143.0	1141.9
15°	1118.1	1118.7	1117.6	1127.1	1127.1
17.5°	1097.2	1096.6	1098.8	1110.4	1109.3
20°	1072.8	1073.3	1076.1	1089.4	1089.4
22.5°	1047.4	1046.9	1052.9	1066.2	1067.3
25°	1017.5	1019.2	1026.4	1041.4	1042.5
27.5°	985.5	988.3	997.1	1014.2	1015.9
30°	951.8	955.1	968.4	984.3	986.6
32.5°	914.8	921.9	934.1	954.6	960.1
35°	877.7	883.8	899.9	922.5	928.0
37.5°	836.8	846.7	865.0	889.8	897.1
40°	796.4	806.5	829.1	855.1	862.8
42.5°	755.5	766.1	792.0	821.4	829.6
45°	713.1	725.7	753.3	784.9	794.8
47.5°	669.4	684.3	714.2	748.4	759.5
50°	626.3	641.2	675.5	710.7	720.8
52.5°	579.8	598.6	635.1	673.3	683.2
55°	538.9	554.4	595.3	634.5	646.7
57.5°	490.9	511.8	555.5	595.3	606.9
60°	448.3	467.6	514.0	554.4	567.6
62.5°	405.2	425.0	471.4	517.3	529.6
65°	358.7	383.0	432.7	475.3	491.4
67.5°	314.5	339.9	390.8	436.0	452.7
70°	270.8	296.8	352.1	398.5	411.8
72.5°	227.7	254.9	312.3	357.6	373.1
75°	182.4	212.8	274.2	318.4	328.3
77.5°	139.8	173.6	235.4	265.3	272.5
80°	100.0	137.1	187.9	209.5	215.0
82.5°	65.7	101.7	140.4	152.0	150.3
85°	35.4	63.5	82.4	84.0	84.0
87.5°	13.8	25.5	26.0	19.9	18.7
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)