

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: P843016

Luminaire Tested: **24CZ2-35-S-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843016
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: 24CZ2-35-S-UNV-B35
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

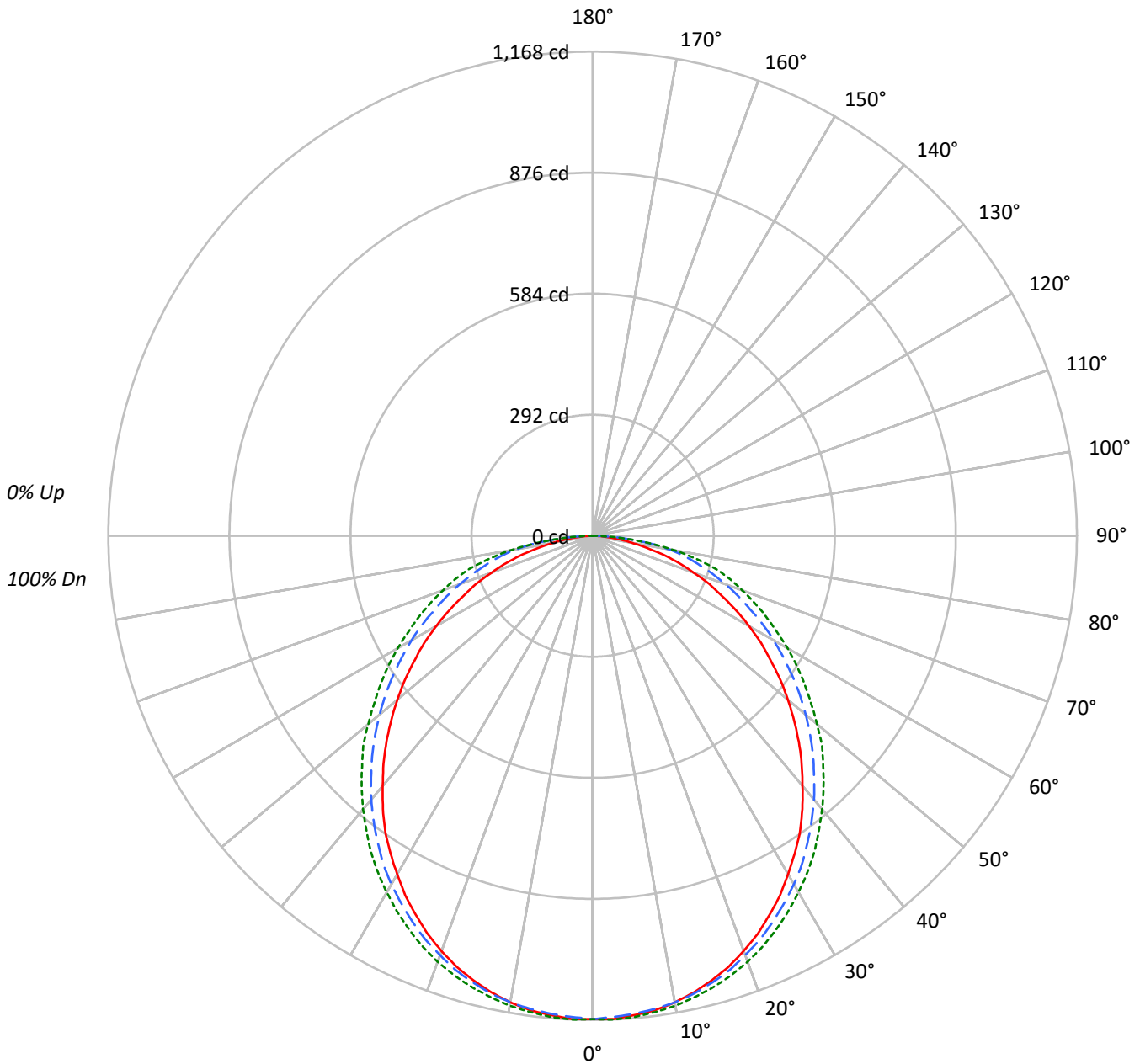
Lumens per Lamp: N/A
Luminaire Lumens: 3319.0 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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					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	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°	1646	1646	1646
5°	1644	1640	1650
10°	1638	1638	1650
15°	1622	1630	1647
20°	1601	1617	1642
25°	1571	1601	1632
30°	1536	1582	1618
35°	1502	1557	1606
40°	1451	1530	1587
45°	1404	1500	1570
50°	1349	1472	1551
55°	1289	1445	1536
60°	1229	1422	1532
65°	1151	1398	1542
70°	1065	1405	1583
75°	954	1431	1673
80°	771	1517	1636
85°	580	1331	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	3.3
10°-20°	315.4	9.5
20°-30°	474.1	14.3
30°-40°	564.8	17.0
40°-50°	578.0	17.4
50°-60°	520.4	15.7
60°-70°	408.7	12.3
70°-80°	265.2	8.0
80°-90°	82.0	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°	899.9	27.1
0°-40°	1464.7	44.1
0°-60°	2563.1	77.2
0°-90°	3319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1166	1166	1166	1166	1166	
5°	1161	1163	1158	1164	1165	110
15°	1110	1113	1115	1125	1127	313
25°	1009	1017	1028	1045	1048	465
35°	872	882	904	926	932	544
45°	703	720	752	780	786	542
55°	524	547	587	618	624	470
65°	345	371	418	453	462	343
75°	175	209	262	298	307	185
85°	36	66	82	80	80	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1166.0	1166.0	1166.0	1166.0	<i>1166.0</i>
2.5°	<i>1167.1</i>	<i>1167.1</i>	<i>1161.7</i>	<i>1167.1</i>	<i>1168.1</i>
5°	1160.7	1162.9	1157.5	1163.9	<i>1164.9</i>
7.5°	1154.4	1154.4	1151.2	1157.5	<i>1158.7</i>
10°	1142.8	1143.8	1142.8	1150.2	<i>1151.2</i>
12.5°	1128.1	1130.1	1131.2	1138.6	<i>1139.6</i>
15°	1110.2	1113.3	1115.4	1124.9	<i>1127.0</i>
17.5°	1090.1	1093.3	1098.5	1109.0	<i>1111.2</i>
20°	1065.8	1070.0	1076.4	1090.1	<i>1093.3</i>
22.5°	1039.5	1043.7	1054.3	1066.8	<i>1072.2</i>
25°	1008.9	1017.3	1027.8	1044.7	<i>1047.9</i>
27.5°	978.3	985.7	999.4	1017.3	<i>1021.6</i>
30°	942.5	954.0	970.9	988.8	<i>993.0</i>
32.5°	907.7	919.2	939.3	958.4	<i>963.6</i>
35°	871.9	882.4	903.5	925.6	<i>931.9</i>
37.5°	830.7	844.4	867.7	889.8	<i>896.1</i>
40°	787.5	804.4	830.7	854.0	<i>861.3</i>
42.5°	746.4	764.3	790.7	816.0	<i>824.4</i>
45°	703.2	720.1	751.7	780.2	<i>786.5</i>
47.5°	658.9	677.9	711.6	740.0	<i>750.6</i>
50°	614.6	634.7	670.5	700.0	<i>706.4</i>
52.5°	570.3	591.4	629.4	661.0	<i>664.2</i>
55°	524.0	547.2	587.2	617.8	<i>624.2</i>
57.5°	481.8	501.9	545.0	576.7	<i>584.0</i>
60°	435.4	457.5	503.9	533.5	<i>542.9</i>
62.5°	391.1	414.3	462.9	492.3	<i>500.7</i>
65°	344.7	371.2	418.5	453.3	<i>461.7</i>
67.5°	304.7	330.0	380.6	414.3	<i>422.7</i>
70°	258.2	286.8	340.5	375.3	<i>383.7</i>
72.5°	218.2	247.7	301.5	335.2	<i>347.9</i>
75°	175.0	208.7	262.5	298.4	<i>306.8</i>
77.5°	132.9	171.9	226.6	254.0	<i>254.0</i>
80°	94.9	136.0	186.6	199.3	<i>201.3</i>
82.5°	62.2	102.3	138.1	137.1	<i>137.1</i>
85°	35.8	66.4	82.2	80.1	<i>80.1</i>
87.5°	13.7	27.4	29.5	29.5	<i>28.5</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)