

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: P843150

Luminaire Tested: **24CZ2-60HE-RDP-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843150
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: 24CZ2-60HE-RDP-UNV-B50
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

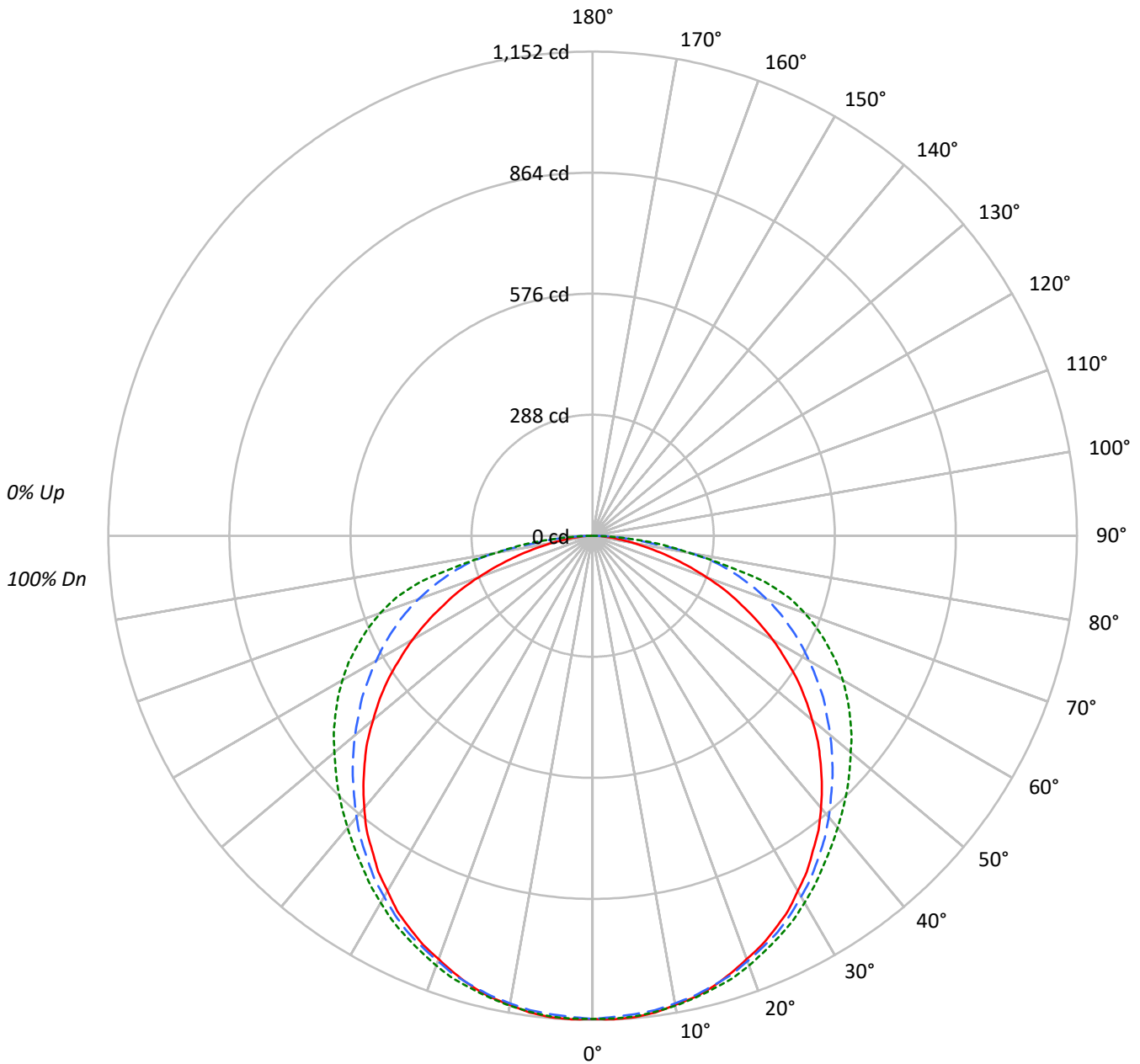
Lumens per Lamp: N/A
Luminaire Lumens: 3656.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 45
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			100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82			82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67			67
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56			56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47			47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40			40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35			35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31			31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27			27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24			24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22			22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1623	1623	1623
5°	1629	1619	1626
10°	1624	1619	1627
15°	1622	1619	1629
20°	1610	1618	1634
25°	1604	1621	1638
30°	1590	1616	1643
35°	1575	1612	1650
40°	1557	1610	1671
45°	1531	1611	1708
50°	1497	1620	1760
55°	1459	1646	1839
60°	1397	1679	1940
65°	1308	1738	2059
70°	1190	1818	2215
75°	1009	1918	2314
80°	797	1930	1871
85°	588	1469	1644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	3.0
10°-20°	313.9	8.6
20°-30°	480.0	13.1
30°-40°	586.8	16.0
40°-50°	625.4	17.1
50°-60°	598.0	16.4
60°-70°	506.5	13.9
70°-80°	340.4	9.3
80°-90°	96.0	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°	902.9	24.7
0°-40°	1489.7	40.7
0°-60°	2713.0	74.2
0°-90°	3656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3656.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1150	1148	1142	1148	1148	109
15°	1110	1110	1108	1117	1115	313
25°	1030	1034	1041	1050	1052	475
35°	914	921	936	954	958	573
45°	767	780	807	841	856	592
55°	593	615	669	722	747	528
65°	392	432	520	589	617	389
75°	185	252	352	412	424	198
85°	36	74	91	98	102	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1149.7	1149.7	1149.7	1149.7	1149.7
2.5°	1151.5	1151.5	1146.0	1149.7	1149.7
5°	1149.7	1148.0	1142.5	1148.0	1148.0
7.5°	1144.3	1142.5	1138.8	1144.3	1142.5
10°	1133.3	1133.3	1129.8	1135.3	1135.3
12.5°	1124.4	1122.6	1120.6	1127.9	1126.1
15°	1109.9	1109.9	1108.0	1117.1	1115.2
17.5°	1091.8	1093.5	1095.3	1102.5	1104.5
20°	1071.7	1075.4	1077.1	1088.1	1088.1
22.5°	1053.5	1055.5	1059.0	1069.9	1069.9
25°	1030.1	1033.6	1040.8	1050.0	1051.8
27.5°	1006.5	1008.2	1017.4	1030.1	1031.9
30°	975.7	981.1	991.8	1006.5	1008.2
32.5°	948.3	953.8	966.5	981.1	984.6
35°	914.0	921.2	935.6	953.8	957.5
37.5°	883.2	888.6	906.8	926.7	932.2
40°	845.1	855.8	874.0	897.6	906.8
42.5°	807.1	817.8	839.7	870.5	881.4
45°	767.1	779.7	807.1	841.4	855.8
47.5°	727.3	741.7	772.5	812.3	828.7
50°	681.8	699.9	738.0	783.5	801.6
52.5°	638.3	660.1	701.9	752.6	776.2
55°	593.0	614.7	669.1	721.8	747.2
57.5°	542.3	571.1	631.1	691.0	718.1
60°	495.0	522.2	594.8	660.1	687.3
62.5°	444.3	480.6	558.5	627.3	654.7
65°	391.6	431.6	520.4	589.3	616.6
67.5°	344.6	388.1	482.4	551.2	578.6
70°	288.4	342.6	440.6	509.5	536.8
72.5°	235.7	295.6	397.1	464.2	489.6
75°	185.0	252.1	351.8	411.7	424.4
77.5°	137.8	208.6	304.6	330.0	321.0
80°	98.0	166.8	237.5	224.8	230.2
82.5°	63.4	127.0	146.9	166.8	172.3
85°	36.3	74.3	90.7	98.0	101.5
87.5°	16.4	27.1	36.3	36.3	34.5
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)