

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: P843149

Luminaire Tested: **24CZ2-60HE-RDP-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843149
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-B40
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

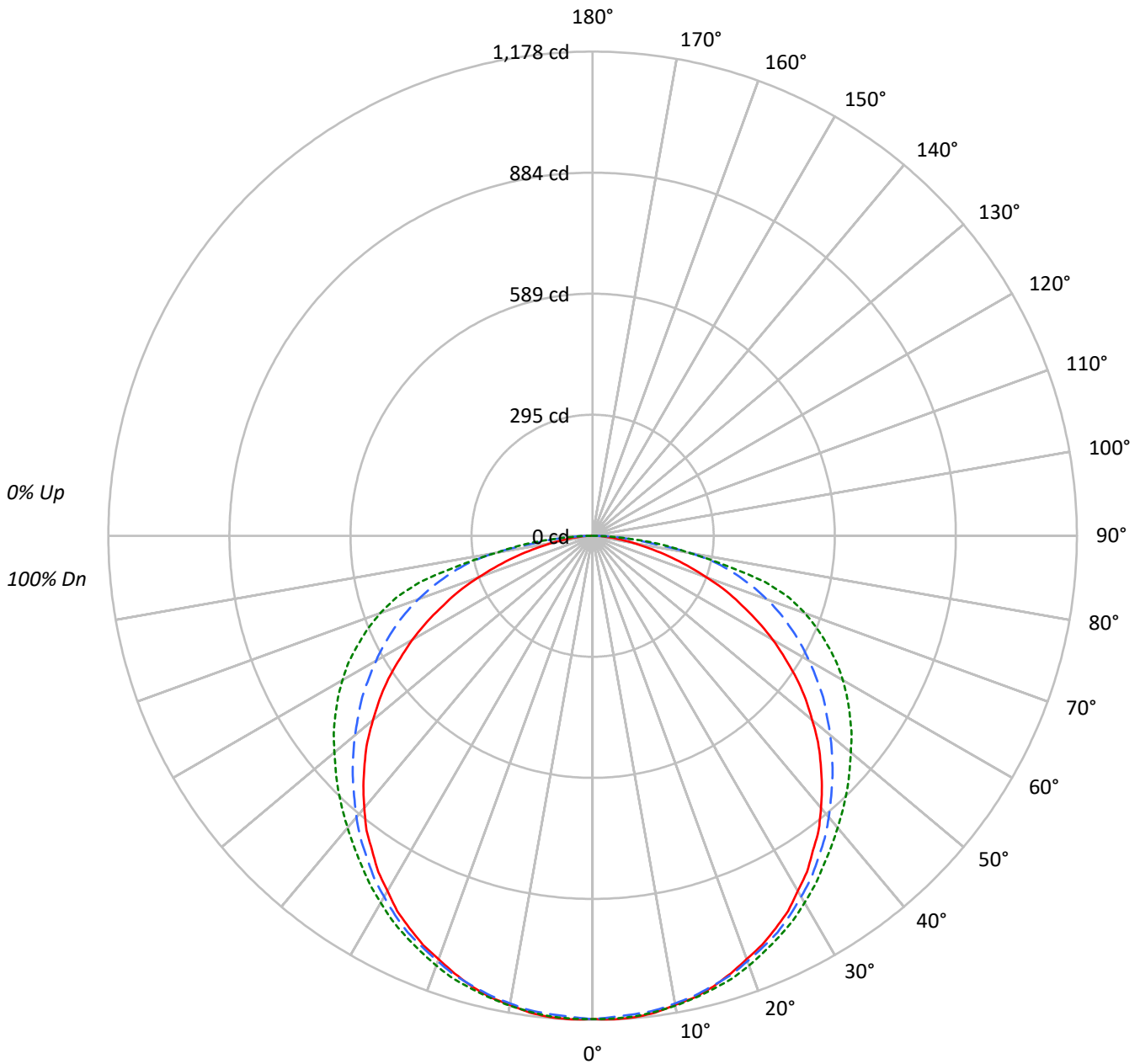
Lumens per Lamp: N/A
Luminaire Lumens: 3739.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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			
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°	1659	1659	1659
5°	1666	1655	1663
10°	1661	1656	1664
15°	1659	1656	1666
20°	1646	1655	1671
25°	1641	1658	1675
30°	1626	1653	1680
35°	1611	1649	1687
40°	1592	1647	1709
45°	1566	1647	1747
50°	1531	1657	1800
55°	1492	1684	1880
60°	1429	1717	1984
65°	1337	1777	2106
70°	1217	1859	2265
75°	1032	1962	2367
80°	814	1974	1914
85°	601	1503	1681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	3.0
10°-20°	321.0	8.6
20°-30°	490.9	13.1
30°-40°	600.1	16.0
40°-50°	639.6	17.1
50°-60°	611.5	16.4
60°-70°	518.0	13.9
70°-80°	348.2	9.3
80°-90°	98.2	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°	923.4	24.7
0°-40°	1523.5	40.7
0°-60°	2774.6	74.2
0°-90°	3739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1176	1174	1168	1174	1174	112
15°	1135	1135	1133	1142	1140	320
25°	1054	1057	1064	1074	1076	486
35°	935	942	957	976	979	586
45°	784	797	825	860	875	605
55°	606	629	684	738	764	540
65°	400	441	532	603	631	398
75°	189	258	360	421	434	203
85°	37	76	93	100	104	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1175.8	1175.8	1175.8	1175.8	1175.8
2.5°	1177.6	1177.6	1172.0	1175.8	1175.8
5°	1175.8	1174.0	1168.4	1174.0	1174.0
7.5°	1170.2	1168.4	1164.6	1170.2	1168.4
10°	1159.0	1159.0	1155.5	1161.1	1161.1
12.5°	1149.9	1148.1	1146.1	1153.5	1151.7
15°	1135.1	1135.1	1133.1	1142.5	1140.5
17.5°	1116.6	1118.3	1120.1	1127.5	1129.5
20°	1096.0	1099.8	1101.6	1112.8	1112.8
22.5°	1077.4	1079.4	1083.0	1094.2	1094.2
25°	1053.5	1057.1	1064.5	1073.8	1075.6
27.5°	1029.3	1031.1	1040.5	1053.5	1055.3
30°	997.8	1003.4	1014.4	1029.3	1031.1
32.5°	969.9	975.5	988.4	1003.4	1007.0
35°	934.8	942.1	956.9	975.5	979.3
37.5°	903.2	908.8	927.4	947.7	953.3
40°	864.3	875.3	893.8	918.0	927.4
42.5°	825.4	836.4	858.7	890.3	901.4
45°	784.5	797.4	825.4	860.5	875.3
47.5°	743.8	758.5	790.1	830.8	847.5
50°	697.3	715.8	754.7	801.2	819.8
52.5°	652.8	675.1	717.8	769.7	793.9
55°	606.5	628.6	684.3	738.2	764.1
57.5°	554.6	584.1	645.4	706.7	734.4
60°	506.3	534.0	608.3	675.1	702.9
62.5°	454.4	491.5	571.1	641.6	669.5
65°	400.5	441.4	532.2	602.7	630.6
67.5°	352.4	396.9	493.3	563.8	591.7
70°	295.0	350.4	450.6	521.0	549.0
72.5°	241.1	302.3	406.1	474.8	500.7
75°	189.2	257.8	359.8	421.1	434.1
77.5°	140.9	213.3	311.5	337.5	328.3
80°	100.2	170.6	242.9	229.9	235.5
82.5°	64.9	129.9	150.3	170.6	176.2
85°	37.1	76.0	92.8	100.2	103.8
87.5°	16.8	27.7	37.1	37.1	35.3
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)