

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: P843147

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843147
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: 24CZ2-60HE-HRP-UNV-B50
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

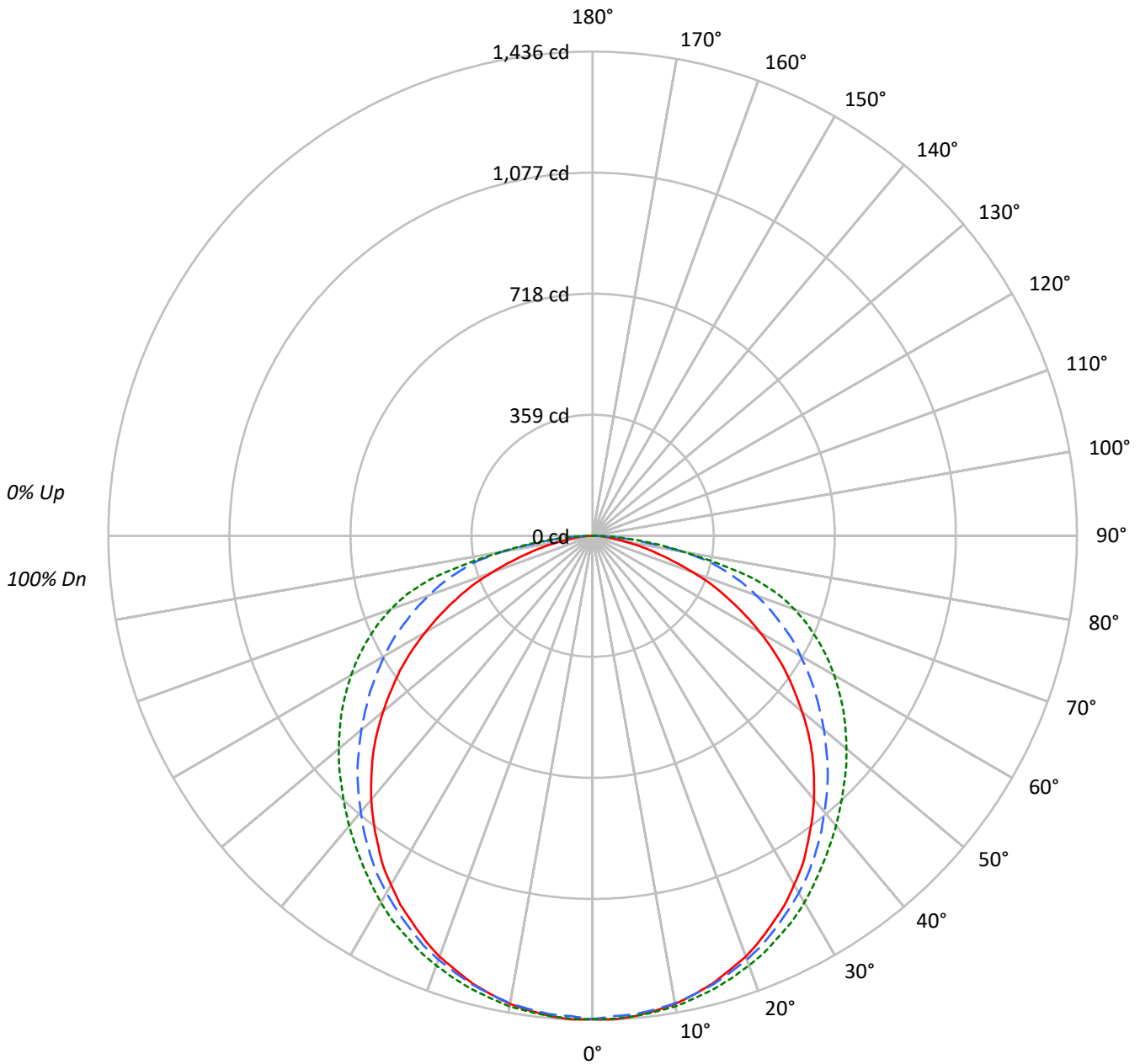
Lumens per Lamp: N/A
Luminaire Lumens: 4419.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	101	96	93	96	93	90	92	90	87	89	86	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56					56			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48					48			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41					41			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36					36			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28					28			
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25					25			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2024	2024	2024
5°	2026	2018	2026
10°	2020	2017	2031
15°	2008	2014	2033
20°	1995	2009	2037
25°	1971	1999	2040
30°	1948	1993	2047
35°	1916	1983	2049
40°	1881	1970	2069
45°	1839	1968	2101
50°	1779	1966	2157
55°	1716	1980	2235
60°	1619	2010	2334
65°	1495	2057	2465
70°	1306	2130	2627
75°	1059	2240	2713
80°	781	2196	2196
85°	601	1619	1827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	3.1
10°-20°	390.0	8.8
20°-30°	593.8	13.4
30°-40°	721.0	16.3
40°-50°	761.7	17.2
50°-60°	718.7	16.3
60°-70°	597.6	13.5
70°-80°	393.2	8.9
80°-90°	107.2	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°	1119.6	25.3
0°-40°	1840.6	41.7
0°-60°	3321.0	75.2
0°-90°	4419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4419.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1430	1430	1424	1430	1430	136
15°	1374	1376	1378	1391	1391	388
25°	1265	1273	1284	1306	1310	584
35°	1112	1125	1151	1180	1190	696
45°	921	940	986	1034	1053	709
55°	697	727	805	881	908	621
65°	448	499	616	707	738	443
75°	194	283	411	487	498	209
85°	37	81	100	111	113	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1433.8	1433.8	1433.8	1433.8	1433.8
2.5°	1435.6	1433.8	1426.3	1433.8	1433.8
5°	1430.1	1430.1	1424.4	1430.1	1430.1
7.5°	1420.8	1420.8	1417.1	1424.4	1424.4
10°	1409.8	1409.8	1407.7	1417.1	1417.1
12.5°	1393.1	1394.9	1393.1	1404.1	1404.1
15°	1374.5	1376.4	1378.2	1391.2	1391.2
17.5°	1350.5	1354.2	1357.8	1372.7	1374.5
20°	1328.3	1330.2	1337.5	1354.2	1356.0
22.5°	1298.6	1304.3	1313.5	1330.2	1335.7
25°	1265.4	1272.7	1283.9	1306.1	1309.8
27.5°	1233.8	1239.6	1254.2	1278.2	1285.8
30°	1195.2	1204.3	1222.9	1246.9	1256.0
32.5°	1158.1	1167.3	1189.5	1215.5	1222.9
35°	1111.9	1124.7	1150.8	1180.3	1189.5
37.5°	1067.5	1080.3	1111.9	1145.1	1156.3
40°	1021.1	1035.9	1069.3	1108.2	1122.9
42.5°	971.2	991.6	1028.6	1071.2	1087.9
45°	921.3	939.9	986.1	1034.1	1052.6
47.5°	867.6	889.7	939.9	997.1	1019.2
50°	810.4	838.0	895.5	958.4	982.4
52.5°	752.9	784.3	849.0	919.5	945.3
55°	697.3	727.1	804.6	880.6	908.3
57.5°	636.5	673.3	758.4	839.9	867.6
60°	573.6	614.3	712.2	797.3	826.8
62.5°	510.7	556.9	667.8	752.9	784.3
65°	447.7	499.4	616.1	706.7	738.1
67.5°	386.6	444.1	567.8	658.7	690.0
70°	316.4	388.5	516.1	604.9	636.5
72.5°	251.7	334.9	466.3	549.5	577.2
75°	194.2	283.0	410.7	486.6	497.6
77.5°	142.5	231.3	353.2	379.3	381.2
80°	96.1	185.1	270.2	266.3	270.2
82.5°	62.9	138.6	170.2	190.6	192.4
85°	37.1	81.4	100.0	111.0	112.8
87.5°	18.5	27.7	35.2	37.1	40.7
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)