

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: P843157

Luminaire Tested: **24CZ2-60HE-UNV-B35**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P843157
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: 24CZ2-60HE-UNV-B35
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

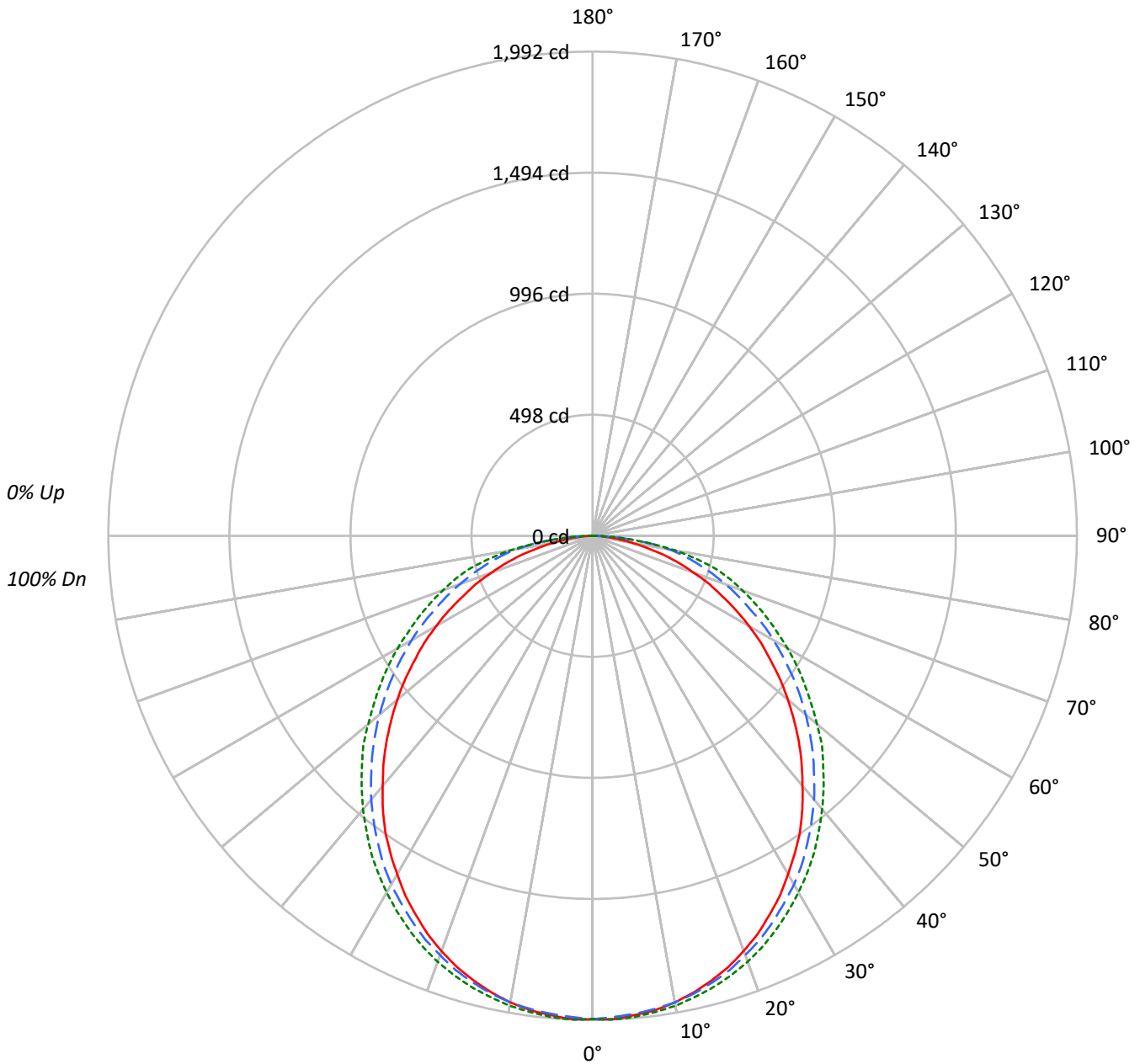
Lumens per Lamp: N/A
Luminaire Lumens: 5661.0 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
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	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°	2807	2807	2807
5°	2805	2797	2815
10°	2793	2793	2814
15°	2767	2780	2809
20°	2730	2757	2801
25°	2680	2730	2783
30°	2620	2699	2760
35°	2562	2655	2739
40°	2475	2610	2707
45°	2394	2559	2678
50°	2302	2511	2645
55°	2199	2465	2620
60°	2096	2426	2614
65°	1964	2384	2630
70°	1817	2397	2701
75°	1628	2442	2853
80°	1315	2587	2791
85°	989	2270	2214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	3.3
10°-20°	538.0	9.5
20°-30°	808.7	14.3
30°-40°	963.3	17.0
40°-50°	985.9	17.4
50°-60°	887.6	15.7
60°-70°	697.0	12.3
70°-80°	452.4	8.0
80°-90°	139.9	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°	1534.9	27.1
0°-40°	2498.2	44.1
0°-60°	4371.7	77.2
0°-90°	5661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5661.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1989	1989	1989	1989	1989	
5°	1980	1983	1974	1985	1987	188
15°	1894	1899	1902	1919	1922	534
25°	1721	1735	1753	1782	1787	793
35°	1487	1505	1541	1579	1590	928
45°	1199	1228	1282	1331	1342	925
55°	894	933	1002	1054	1065	801
65°	588	633	714	773	788	585
75°	298	356	448	509	523	316
85°	61	113	140	137	137	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1988.8	1988.8	1988.8	1988.8	1988.8
2.5°	1990.6	1990.6	1981.5	1990.6	1992.3
5°	1979.7	1983.4	1974.3	1985.2	1986.9
7.5°	1968.9	1968.9	1963.5	1974.3	1976.3
10°	1949.2	1950.9	1949.2	1961.8	1963.5
12.5°	1924.1	1927.5	1929.5	1942.0	1943.8
15°	1893.5	1898.9	1902.4	1918.6	1922.3
17.5°	1859.3	1864.7	1873.6	1891.6	1895.2
20°	1817.9	1825.1	1835.9	1859.3	1864.7
22.5°	1773.1	1780.2	1798.2	1819.6	1828.7
25°	1720.8	1735.1	1753.1	1781.9	1787.4
27.5°	1668.6	1681.2	1704.6	1735.1	1742.5
30°	1607.5	1627.3	1656.1	1686.6	1693.8
32.5°	1548.2	1567.9	1602.1	1634.6	1643.5
35°	1487.1	1505.1	1541.0	1578.7	1589.6
37.5°	1416.9	1440.3	1479.9	1517.6	1528.5
40°	1343.2	1372.0	1416.9	1456.5	1469.1
42.5°	1273.0	1303.6	1348.6	1391.8	1406.1
45°	1199.4	1228.2	1282.1	1330.7	1341.5
47.5°	1123.8	1156.3	1213.7	1262.2	1280.2
50°	1048.4	1082.6	1143.7	1194.0	1204.8
52.5°	972.8	1008.7	1073.5	1127.4	1132.9
55°	893.7	933.3	1001.6	1053.8	1064.6
57.5°	821.8	856.0	929.6	983.6	996.2
60°	742.7	780.4	859.4	909.9	926.0
62.5°	667.1	706.7	789.5	839.7	854.0
65°	588.0	633.0	713.9	773.2	787.5
67.5°	519.7	562.9	649.1	706.7	721.0
70°	440.4	489.2	580.8	640.2	654.5
72.5°	372.2	422.5	514.3	571.7	593.4
75°	298.5	356.0	447.8	508.9	523.2
77.5°	226.6	293.1	386.5	433.3	433.3
80°	161.8	232.0	318.3	339.9	343.4
82.5°	106.2	174.4	235.5	233.8	233.8
85°	61.1	113.3	140.2	136.7	136.7
87.5°	23.4	46.8	50.3	50.3	48.5
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)