

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: P275922

Luminaire Tested: **24CZ2-60HE-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-60HE-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5392.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

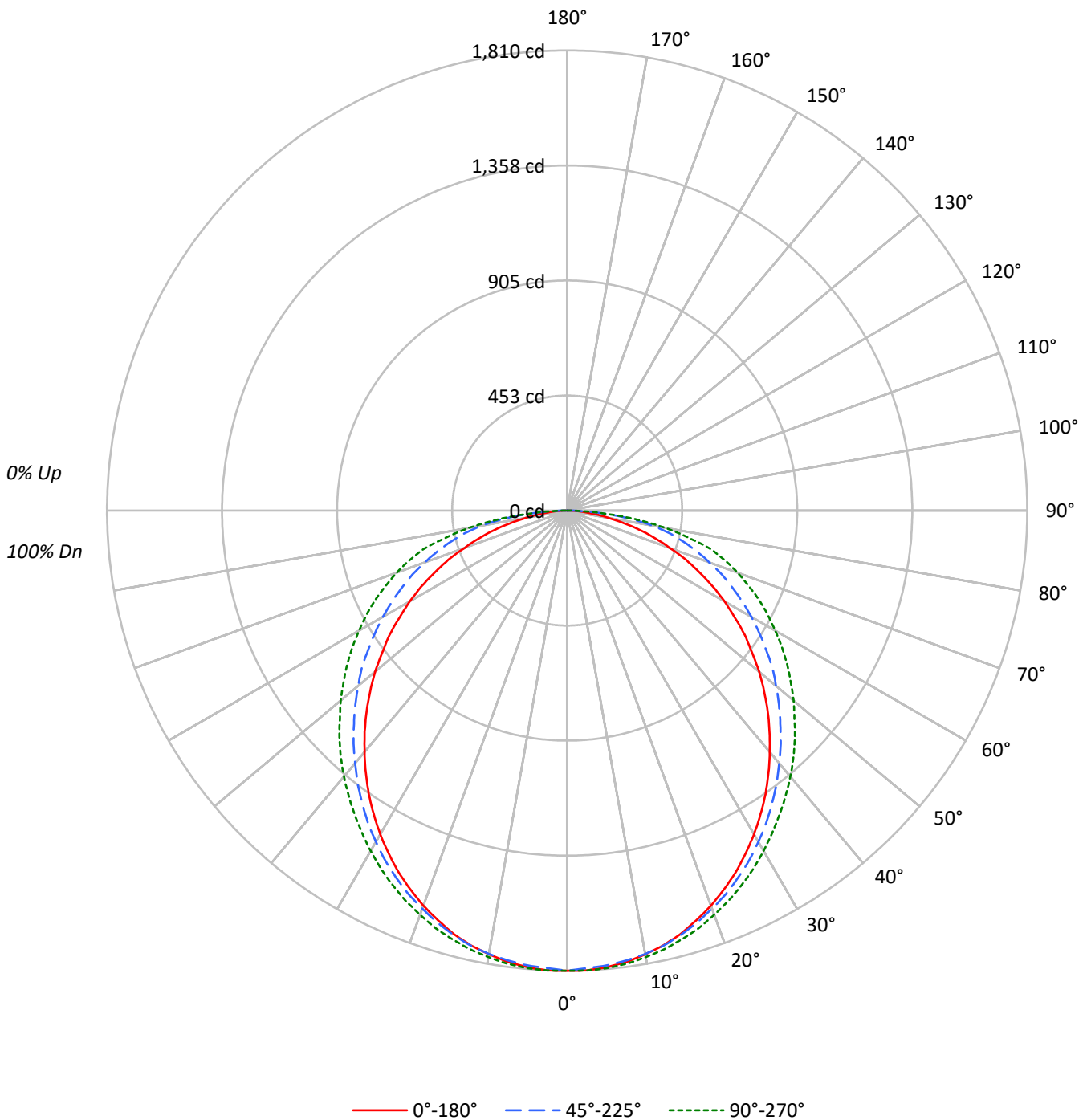
Input Watts (W): 44.175
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2436	2436	2436
5°	2435	2426	2440
10°	2422	2419	2437
15°	2401	2406	2432
20°	2368	2386	2422
25°	2330	2364	2412
30°	2284	2337	2402
35°	2235	2308	2394
40°	2178	2279	2399
45°	2123	2257	2411
50°	2064	2245	2433
55°	2001	2242	2478
60°	1922	2252	2542
65°	1822	2286	2653
70°	1692	2343	2803
75°	1543	2460	3041
80°	1269	2649	3040
85°	973	2445	2612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	3.2
10°-20°	488.8	9.1
20°-30°	735.6	13.6
30°-40°	881.5	16.3
40°-50°	918.6	17.0
50°-60°	854.7	15.9
60°-70°	703.9	13.1
70°-80°	479.4	8.9
80°-90°	158.3	2.9
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°	1395.6	25.9
0°-40°	2277.1	42.2
0°-60°	4050.4	75.1
0°-90°	5392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5392.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1810	1810	1810	1810	1810	
5°	1803	1803	1796	1805	1807	171
15°	1724	1726	1728	1744	1746	486
25°	1569	1576	1593	1620	1625	722
35°	1360	1377	1405	1443	1458	850
45°	1116	1139	1186	1245	1267	860
55°	853	882	956	1031	1056	760
65°	572	621	718	803	833	568
75°	297	364	473	558	585	313
85°	63	122	158	169	169	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1810.3	1810.3	1810.3	1810.3	1810.3
2.5°	1810.3	1810.3	1801.3	1810.3	1810.3
5°	1803.1	1803.1	1795.9	1804.9	1806.7
7.5°	1790.6	1792.3	1785.2	1795.9	1797.7
10°	1772.6	1774.4	1770.8	1781.6	1783.4
12.5°	1751.0	1752.8	1752.8	1765.4	1767.2
15°	1724.0	1725.8	1727.6	1743.8	1745.6
17.5°	1689.8	1695.2	1698.8	1718.6	1722.2
20°	1653.8	1659.2	1666.4	1688.0	1691.6
22.5°	1612.4	1619.6	1632.2	1655.6	1661.0
25°	1569.2	1576.4	1592.6	1619.6	1625.0
27.5°	1520.6	1531.4	1551.2	1580.0	1587.2
30°	1470.2	1481.0	1504.4	1535.0	1545.8
32.5°	1416.2	1430.6	1457.6	1491.8	1502.6
35°	1360.5	1376.7	1405.4	1443.2	1457.6
37.5°	1301.1	1319.1	1353.3	1394.6	1412.6
40°	1239.9	1261.5	1297.5	1346.1	1365.9
42.5°	1178.7	1198.5	1243.5	1295.7	1317.3
45°	1115.7	1139.1	1185.9	1245.3	1266.9
47.5°	1050.9	1074.3	1130.1	1193.1	1212.9
50°	986.2	1009.5	1072.5	1139.1	1162.5
52.5°	916.0	946.6	1018.5	1085.1	1108.5
55°	853.0	881.8	955.6	1031.1	1056.3
57.5°	781.0	815.2	896.2	975.4	1002.3
60°	714.4	750.4	836.8	917.8	944.8
62.5°	646.0	685.6	777.4	860.2	890.8
65°	572.3	620.8	718.0	802.6	833.2
67.5°	505.7	556.1	658.6	745.0	772.0
70°	430.1	491.3	595.7	682.0	712.6
72.5°	365.3	426.5	536.3	620.8	651.4
75°	296.9	363.5	473.3	557.9	584.9
77.5°	228.5	302.3	412.1	476.9	485.9
80°	163.8	241.1	341.9	379.7	392.3
82.5°	115.2	185.4	251.9	277.1	284.3
85°	63.0	122.4	158.4	169.2	169.2
87.5°	27.0	52.2	63.0	64.8	66.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)