

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: P275912

Luminaire Tested: **24CZ2-50HE-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275912
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: 24CZ2-50HE-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: 4493.0 lumens
Efficiency: N/A
Efficacy: 126.1 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

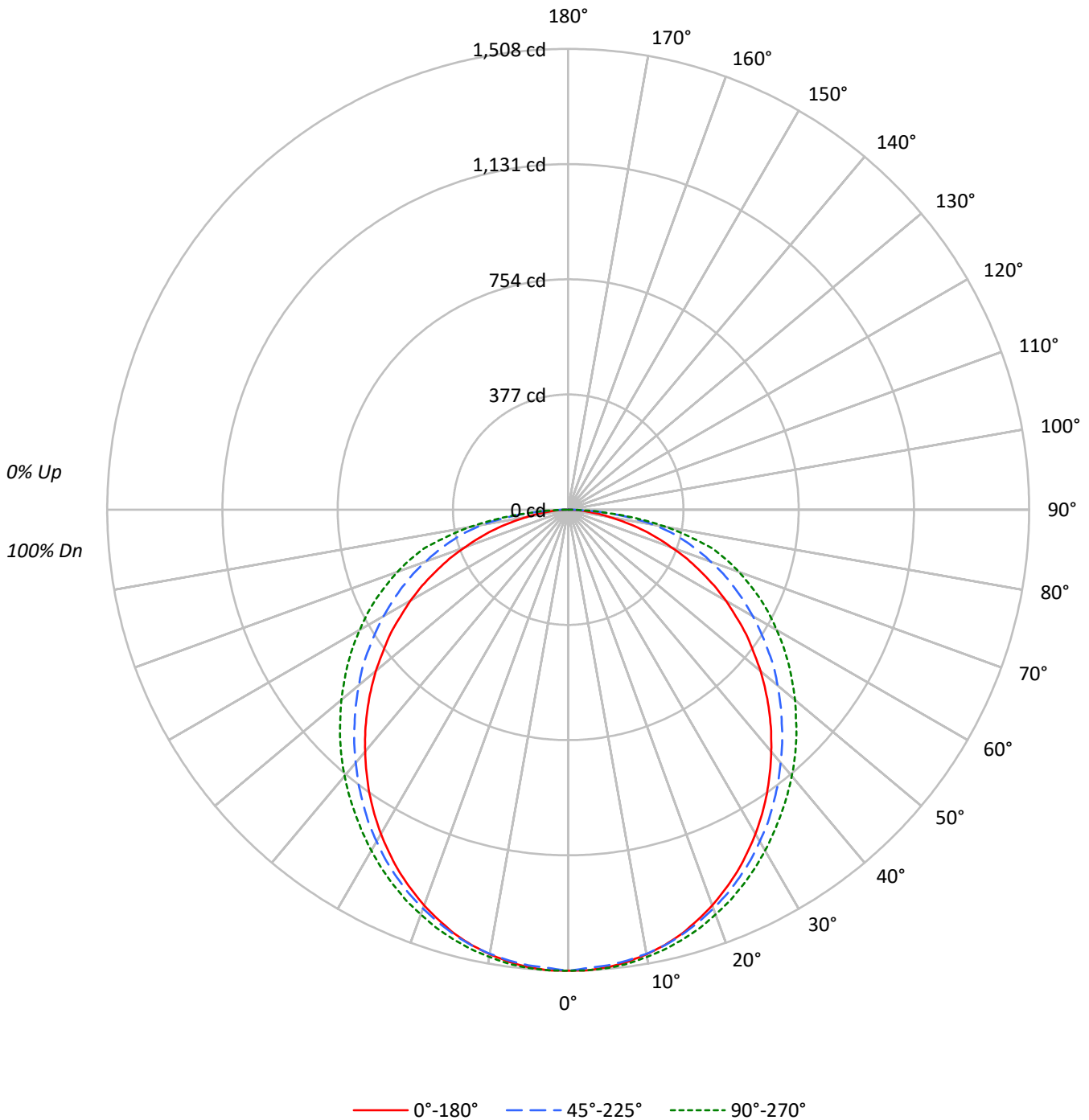
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2030	2030	2030
5°	2029	2021	2033
10°	2018	2016	2030
15°	2001	2005	2026
20°	1973	1988	2018
25°	1941	1970	2010
30°	1903	1948	2001
35°	1862	1924	1995
40°	1815	1899	1999
45°	1769	1880	2009
50°	1720	1871	2028
55°	1667	1868	2065
60°	1602	1876	2118
65°	1518	1905	2210
70°	1410	1952	2336
75°	1286	2050	2533
80°	1058	2208	2533
85°	810	2038	2177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	3.2
10°-20°	407.3	9.1
20°-30°	612.9	13.6
30°-40°	734.5	16.3
40°-50°	765.5	17.0
50°-60°	712.2	15.9
60°-70°	586.6	13.1
70°-80°	399.5	8.9
80°-90°	131.9	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°	1162.9	25.9
0°-40°	1897.4	42.2
0°-60°	3375.1	75.1
0°-90°	4493.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4493.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1502	1502	1496	1504	1506	143
15°	1436	1438	1440	1453	1454	405
25°	1308	1314	1327	1350	1354	602
35°	1134	1147	1171	1203	1215	709
45°	930	949	988	1038	1056	717
55°	711	735	796	859	880	634
65°	477	517	598	669	694	473
75°	247	303	394	465	487	261
85°	52	102	132	141	141	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1508.5	1508.5	1508.5	1508.5	1508.5
2.5°	1508.5	1508.5	1501.0	1508.5	1508.5
5°	1502.5	1502.5	1496.5	1504.0	1505.5
7.5°	1492.0	1493.5	1487.5	1496.5	1498.0
10°	1477.0	1478.5	1475.5	1484.5	1486.0
12.5°	1459.0	1460.5	1460.5	1471.0	1472.5
15°	1436.5	1438.0	1439.5	1453.0	1454.5
17.5°	1408.0	1412.5	1415.5	1432.0	1435.0
20°	1378.1	1382.6	1388.5	1406.5	1409.5
22.5°	1343.6	1349.6	1360.1	1379.6	1384.0
25°	1307.6	1313.6	1327.1	1349.6	1354.1
27.5°	1267.1	1276.1	1292.6	1316.6	1322.6
30°	1225.1	1234.1	1253.6	1279.1	1288.1
32.5°	1180.1	1192.1	1214.6	1243.1	1252.1
35°	1133.6	1147.1	1171.1	1202.6	1214.6
37.5°	1084.1	1099.1	1127.6	1162.1	1177.1
40°	1033.2	1051.2	1081.1	1121.6	1138.1
42.5°	982.2	998.7	1036.2	1079.6	1097.6
45°	929.7	949.2	988.2	1037.7	1055.7
47.5°	875.7	895.2	941.7	994.2	1010.7
50°	821.7	841.2	893.7	949.2	968.7
52.5°	763.3	788.7	848.7	904.2	923.7
55°	710.8	734.8	796.2	859.2	880.2
57.5°	650.8	679.3	746.8	812.7	835.2
60°	595.3	625.3	697.3	764.8	787.2
62.5°	538.3	571.3	647.8	716.8	742.3
65°	476.8	517.3	598.3	668.8	694.3
67.5°	421.4	463.3	548.8	620.8	643.3
70°	358.4	409.4	496.3	568.3	593.8
72.5°	304.4	355.4	446.9	517.3	542.8
75°	247.4	302.9	394.4	464.8	487.3
77.5°	190.4	251.9	343.4	397.4	404.9
80°	136.5	200.9	284.9	316.4	326.9
82.5°	96.0	154.4	209.9	230.9	236.9
85°	52.5	102.0	132.0	141.0	141.0
87.5°	22.5	43.5	52.5	54.0	55.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)