

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: P276078

Luminaire Tested: **24CZ2-50HE-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276078
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-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4363.0 lumens
Efficiency: N/A
Efficacy: 122.2 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

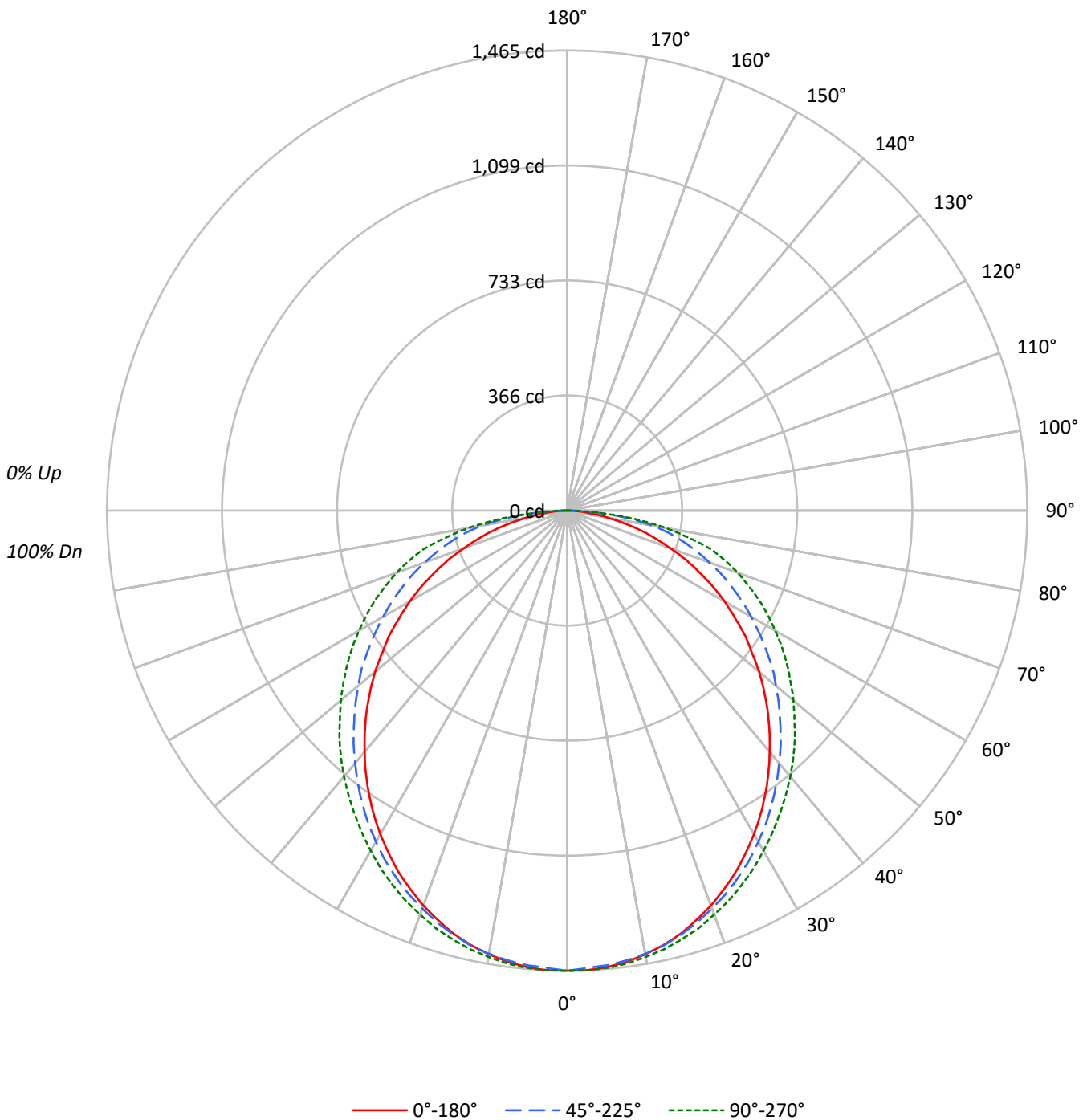
Input Watts (W): 35.712
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1971	1971	1971
5°	1971	1963	1974
10°	1960	1958	1971
15°	1943	1947	1967
20°	1916	1931	1960
25°	1885	1913	1952
30°	1848	1891	1943
35°	1808	1868	1937
40°	1762	1844	1941
45°	1718	1826	1951
50°	1670	1816	1969
55°	1619	1814	2005
60°	1556	1822	2057
65°	1474	1850	2146
70°	1369	1896	2268
75°	1249	1991	2460
80°	1027	2144	2459
85°	787	1978	2113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	3.2
10°-20°	395.5	9.1
20°-30°	595.2	13.6
30°-40°	713.3	16.3
40°-50°	743.3	17.0
50°-60°	691.6	15.9
60°-70°	569.6	13.1
70°-80°	387.9	8.9
80°-90°	128.1	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°	1129.3	25.9
0°-40°	1842.5	42.2
0°-60°	3277.4	75.1
0°-90°	4363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4363.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1465	1465	1465	1465	1465	
5°	1459	1459	1453	1460	1462	138
15°	1395	1396	1398	1411	1412	393
25°	1270	1276	1289	1310	1315	585
35°	1101	1114	1137	1168	1179	688
45°	903	922	960	1008	1025	696
55°	690	714	773	834	855	615
65°	463	502	581	649	674	460
75°	240	294	383	451	473	253
85°	51	99	128	137	137	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1464.8	1464.8	1464.8	1464.8	1464.8
2.5°	1464.8	1464.8	1457.6	1464.8	1464.8
5°	1459.0	1459.0	1453.2	1460.5	1461.9
7.5°	1448.8	1450.3	1444.5	1453.2	1454.7
10°	1434.3	1435.7	1432.8	1441.5	1443.0
12.5°	1416.8	1418.3	1418.3	1428.4	1429.9
15°	1395.0	1396.4	1397.9	1411.0	1412.4
17.5°	1367.3	1371.7	1374.6	1390.6	1393.5
20°	1338.2	1342.5	1348.4	1365.8	1368.7
22.5°	1304.7	1310.5	1320.7	1339.6	1344.0
25°	1269.7	1275.6	1288.7	1310.5	1314.9
27.5°	1230.4	1239.1	1255.2	1278.5	1284.3
30°	1189.6	1198.4	1217.3	1242.1	1250.8
32.5°	1146.0	1157.6	1179.4	1207.1	1215.9
35°	1100.8	1113.9	1137.2	1167.8	1179.4
37.5°	1052.8	1067.3	1095.0	1128.5	1143.0
40°	1003.3	1020.7	1049.9	1089.2	1105.2
42.5°	953.8	969.8	1006.2	1048.4	1065.9
45°	902.8	921.7	959.6	1007.6	1025.1
47.5°	850.4	869.3	914.4	965.4	981.4
50°	797.9	816.9	867.8	921.7	940.6
52.5°	741.2	765.9	824.2	878.0	897.0
55°	690.2	713.5	773.2	834.4	854.7
57.5°	632.0	659.6	725.1	789.2	811.1
60°	578.1	607.2	677.1	742.6	764.5
62.5°	522.7	554.8	629.0	696.0	720.8
65°	463.0	502.4	581.0	649.4	674.2
67.5°	409.2	449.9	532.9	602.8	624.7
70°	348.0	397.5	482.0	551.9	576.6
72.5°	295.6	345.1	433.9	502.4	527.1
75°	240.3	294.1	383.0	451.4	473.2
77.5°	184.9	244.6	333.4	385.9	393.1
80°	132.5	195.1	276.7	307.2	317.4
82.5°	93.2	150.0	203.9	224.2	230.1
85°	51.0	99.0	128.1	136.9	136.9
87.5°	21.8	42.2	51.0	52.4	53.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)