

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: P276222

Luminaire Tested: **24CZ2-55HE-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276222
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: 24CZ2-55HE-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4114.2 lumens
Efficiency: N/A
Efficacy: 102.9 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

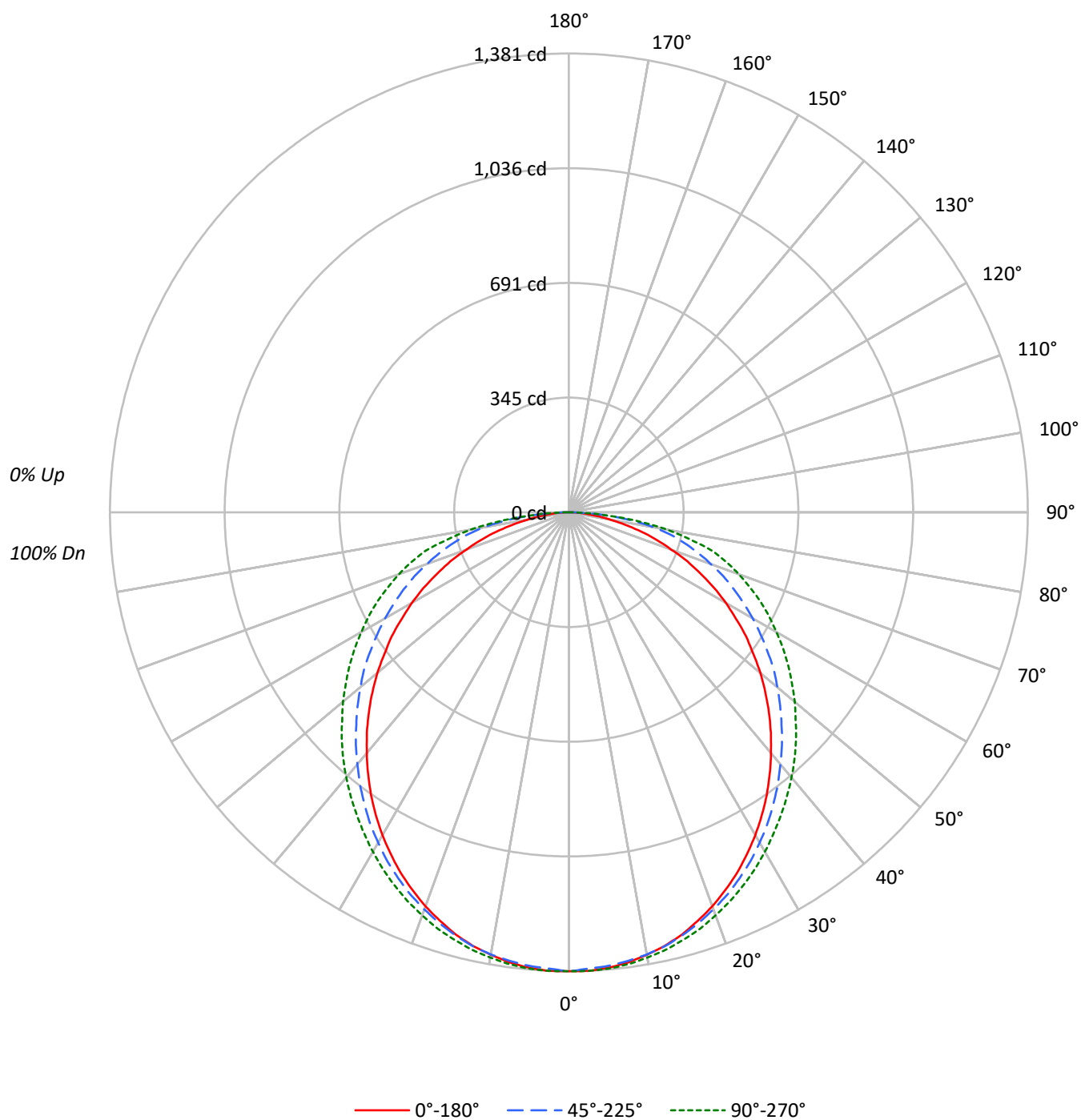
Input Watts (W): 39.99
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	98	94		105	100	96	92		96	93	89		92	89	87		89	86	84
2	98	89	82	76		95	87	80	75		83	78	73		80	75	71		77	73	70
3	89	78	69	62		86	76	68	62		73	66	61		70	64	60		68	63	58
4	81	69	59	52		79	67	59	52		65	57	51		62	56	51		60	55	50
5	74	61	52	45		72	60	51	45		58	50	44		56	49	44		54	48	43
6	69	55	46	39		67	54	45	39		52	44	39		50	44	38		49	43	38
7	64	50	41	35		62	49	40	34		47	40	34		46	39	34		45	38	34
8	59	45	37	31		58	45	36	31		43	36	30		42	35	30		41	35	30
9	55	42	33	28		54	41	33	28		40	33	27		39	32	27		38	32	27
10	52	38	30	25		51	38	30	25		37	30	25		36	29	25		35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1859	1859	1859
5°	1858	1851	1862
10°	1848	1846	1859
15°	1832	1836	1855
20°	1807	1821	1848
25°	1777	1804	1841
30°	1743	1783	1833
35°	1705	1761	1827
40°	1662	1739	1831
45°	1620	1722	1839
50°	1575	1713	1857
55°	1527	1710	1891
60°	1467	1718	1940
65°	1390	1744	2024
70°	1291	1788	2139
75°	1178	1877	2320
80°	968	2022	2319
85°	743	1865	1993



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	3.2
10°-20°	373.0	9.1
20°-30°	561.3	13.6
30°-40°	672.6	16.3
40°-50°	700.9	17.0
50°-60°	652.1	15.9
60°-70°	537.1	13.1
70°-80°	365.8	8.9
80°-90°	120.8	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°	1064.9	25.9
0°-40°	1737.5	42.2
0°-60°	3090.5	75.1
0°-90°	4114.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4114.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1381	1381	1381	1381	1381	
5°	1376	1376	1370	1377	1379	131
15°	1315	1317	1318	1330	1332	371
25°	1197	1203	1215	1236	1240	551
35°	1038	1050	1072	1101	1112	649
45°	851	869	905	950	967	657
55°	651	673	729	787	806	580
65°	437	474	548	612	636	433
75°	227	277	361	426	446	239
85°	48	93	121	129	129	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1381.3	1381.3	1381.3	1381.3	1381.3
2.5°	1381.3	1381.3	1374.4	1381.3	1381.3
5°	1375.8	1375.8	1370.3	1377.2	1378.6
7.5°	1366.2	1367.6	1362.1	1370.3	1371.7
10°	1352.5	1353.9	1351.1	1359.3	1360.7
12.5°	1336.0	1337.4	1337.4	1347.0	1348.4
15°	1315.4	1316.8	1318.2	1330.5	1331.9
17.5°	1289.3	1293.4	1296.2	1311.3	1314.0
20°	1261.9	1266.0	1271.5	1287.9	1290.7
22.5°	1230.3	1235.8	1245.4	1263.2	1267.3
25°	1197.3	1202.8	1215.2	1235.8	1239.9
27.5°	1160.2	1168.5	1183.6	1205.6	1211.1
30°	1121.8	1130.0	1147.9	1171.2	1179.5
32.5°	1080.6	1091.6	1112.2	1138.3	1146.5
35°	1038.0	1050.4	1072.4	1101.2	1112.2
37.5°	992.7	1006.5	1032.6	1064.1	1077.9
40°	946.0	962.5	990.0	1027.1	1042.2
42.5°	899.4	914.5	948.8	988.6	1005.1
45°	851.3	869.2	904.9	950.2	966.6
47.5°	801.9	819.7	862.3	910.3	925.5
50°	752.4	770.3	818.4	869.2	887.0
52.5°	698.9	722.2	777.2	828.0	845.8
55°	650.8	672.8	729.1	786.8	806.0
57.5°	595.9	622.0	683.8	744.2	764.8
60°	545.1	572.6	638.5	700.3	720.9
62.5°	492.9	523.1	593.2	656.3	679.7
65°	436.6	473.7	547.9	612.4	635.7
67.5°	385.8	424.3	502.5	568.5	589.0
70°	328.2	374.8	454.5	520.4	543.7
72.5°	278.7	325.4	409.2	473.7	497.1
75°	226.6	277.4	361.1	425.7	446.2
77.5°	174.4	230.7	314.4	363.9	370.7
80°	124.9	184.0	260.9	289.7	299.3
82.5°	87.9	141.4	192.2	211.5	216.9
85°	48.1	93.4	120.8	129.1	129.1
87.5°	20.6	39.8	48.1	49.4	50.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)