

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: P276089

Luminaire Tested: **24CZ2-55HE-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276089
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-L82765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5128.2 lumens
Efficiency: N/A
Efficacy: 127.3 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

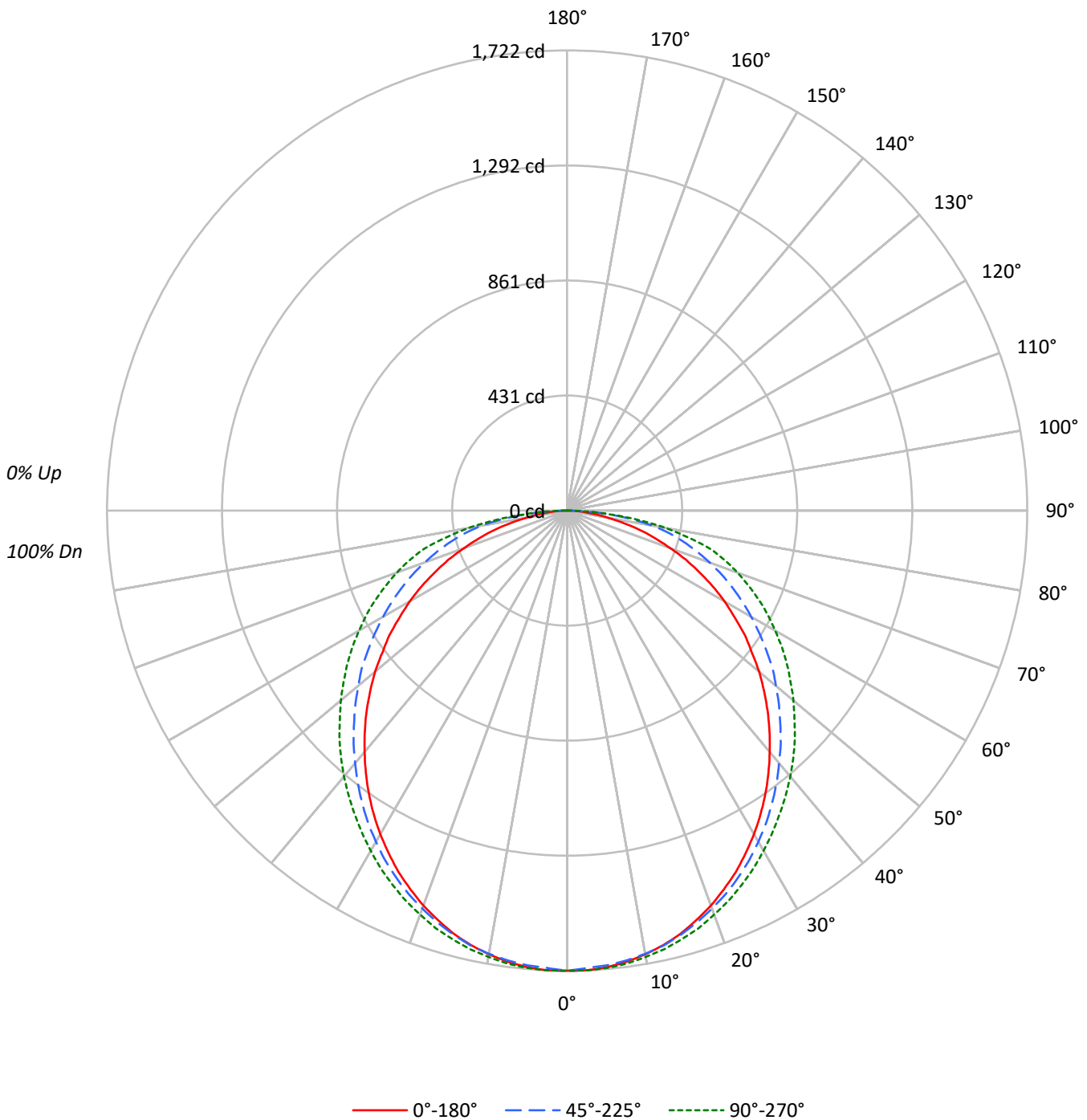
Input Watts (W): 40.269
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2317	2317	2317
5°	2316	2307	2321
10°	2303	2301	2317
15°	2284	2289	2313
20°	2252	2269	2304
25°	2216	2249	2294
30°	2172	2223	2284
35°	2125	2196	2277
40°	2071	2167	2282
45°	2019	2146	2293
50°	1963	2135	2314
55°	1903	2132	2357
60°	1829	2142	2418
65°	1733	2174	2523
70°	1609	2229	2666
75°	1468	2340	2891
80°	1206	2520	2891
85°	925	2325	2484



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.8	3.2
10°-20°	464.9	9.1
20°-30°	699.6	13.6
30°-40°	838.4	16.3
40°-50°	873.7	17.0
50°-60°	812.9	15.9
60°-70°	669.5	13.1
70°-80°	455.9	8.9
80°-90°	150.5	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°	1327.3	25.9
0°-40°	2165.7	42.2
0°-60°	3852.3	75.1
0°-90°	5128.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5128.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1722	1722	1722	1722	1722	
5°	1715	1715	1708	1717	1718	163
15°	1640	1641	1643	1658	1660	462
25°	1492	1499	1515	1540	1546	687
35°	1294	1309	1337	1373	1386	809
45°	1061	1083	1128	1184	1205	818
55°	811	839	909	981	1005	723
65°	544	590	683	763	792	540
75°	282	346	450	531	556	298
85°	60	116	151	161	161	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1721.8	1721.8	1721.8	1721.8	1721.8
2.5°	1721.8	1721.8	1713.2	1721.8	1721.8
5°	1715.0	1715.0	1708.1	1716.7	1718.4
7.5°	1703.0	1704.7	1697.8	1708.1	1709.8
10°	1685.9	1687.6	1684.1	1694.4	1696.1
12.5°	1665.3	1667.0	1667.0	1679.0	1680.7
15°	1639.6	1641.4	1643.1	1658.5	1660.2
17.5°	1607.1	1612.3	1615.7	1634.5	1637.9
20°	1572.9	1578.0	1584.9	1605.4	1608.8
22.5°	1533.5	1540.4	1552.4	1574.6	1579.7
25°	1492.5	1499.3	1514.7	1540.4	1545.5
27.5°	1446.2	1456.5	1475.3	1502.7	1509.6
30°	1398.3	1408.6	1430.8	1459.9	1470.2
32.5°	1347.0	1360.7	1386.3	1418.9	1429.1
35°	1293.9	1309.3	1336.7	1372.6	1386.3
37.5°	1237.4	1254.6	1287.1	1326.4	1343.5
40°	1179.2	1199.8	1234.0	1280.2	1299.0
42.5°	1121.1	1139.9	1182.7	1232.3	1252.8
45°	1061.1	1083.4	1127.9	1184.4	1204.9
47.5°	999.5	1021.8	1074.8	1134.7	1153.6
50°	937.9	960.2	1020.1	1083.4	1105.6
52.5°	871.2	900.3	968.7	1032.1	1054.3
55°	811.3	838.6	908.8	980.7	1004.7
57.5°	742.8	775.3	852.3	927.6	953.3
60°	679.5	713.7	795.9	872.9	898.6
62.5°	614.4	652.1	739.4	818.1	847.2
65°	544.3	590.5	682.9	763.3	792.4
67.5°	480.9	528.9	626.4	708.6	734.2
70°	409.1	467.2	566.5	648.7	677.8
72.5°	347.4	405.6	510.0	590.5	619.6
75°	282.4	345.7	450.1	530.6	556.2
77.5°	217.4	287.5	391.9	453.6	462.1
80°	155.7	229.3	325.2	361.1	373.1
82.5°	109.5	176.3	239.6	263.6	270.4
85°	59.9	116.4	150.6	160.9	160.9
87.5°	25.7	49.6	59.9	61.6	63.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)