

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: P276229

Luminaire Tested: **24CZ2-55HE-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276229
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-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4949.5 lumens
Efficiency: N/A
Efficacy: 119.9 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

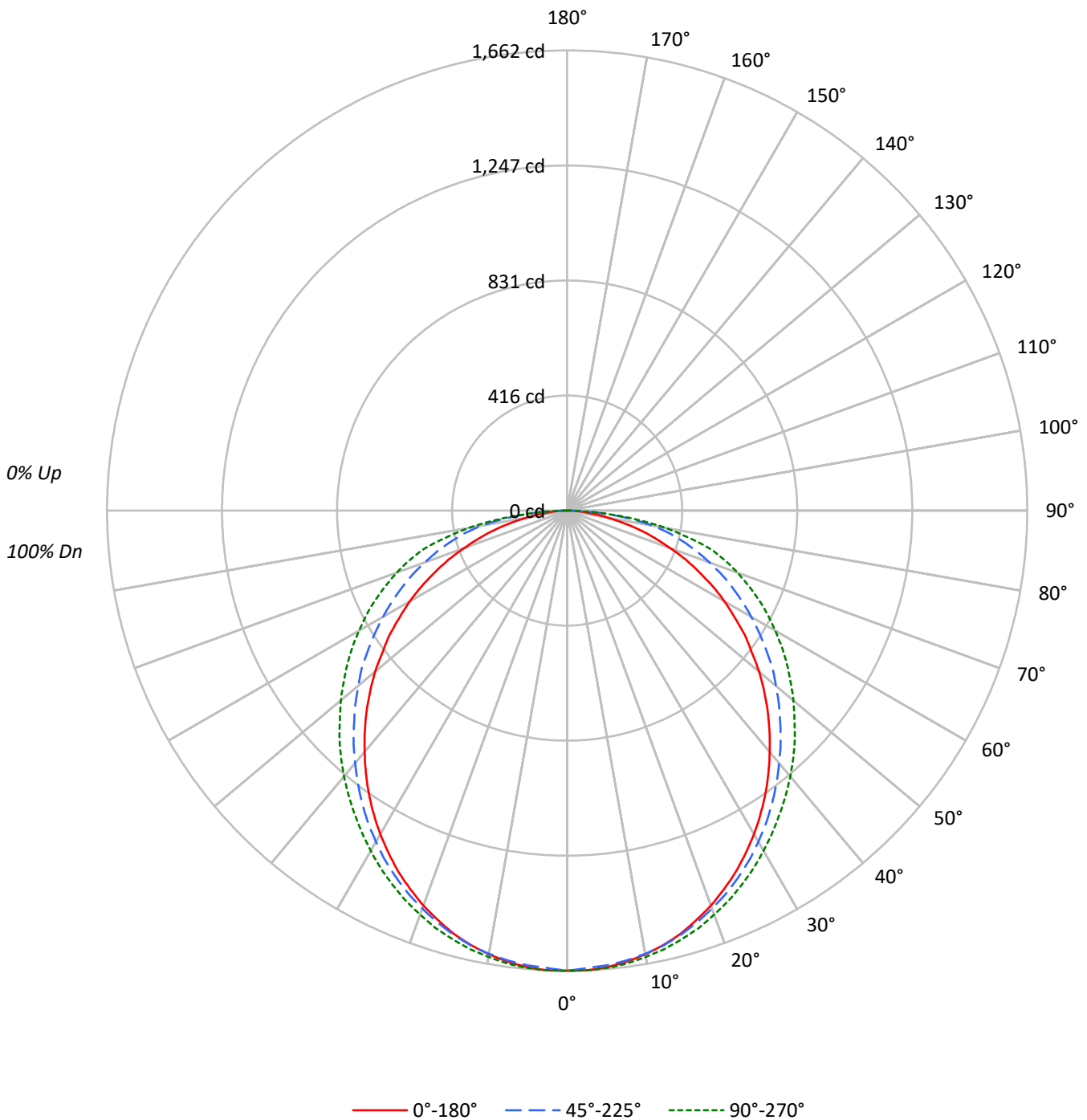
Input Watts (W): 41.292
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2236	2236	2236
5°	2236	2227	2240
10°	2223	2221	2237
15°	2204	2209	2232
20°	2174	2190	2223
25°	2138	2170	2214
30°	2097	2146	2204
35°	2051	2119	2198
40°	1999	2092	2202
45°	1949	2071	2213
50°	1895	2061	2234
55°	1837	2057	2274
60°	1765	2067	2334
65°	1672	2098	2435
70°	1553	2151	2573
75°	1417	2258	2791
80°	1165	2432	2790
85°	892	2245	2397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.2	3.2
10°-20°	448.7	9.1
20°-30°	675.2	13.6
30°-40°	809.2	16.3
40°-50°	843.2	17.0
50°-60°	784.5	15.9
60°-70°	646.2	13.1
70°-80°	440.1	8.9
80°-90°	145.3	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°	1281.1	25.9
0°-40°	2090.2	42.2
0°-60°	3718.0	75.1
0°-90°	4949.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4949.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1662	1662	1662	1662	1662	
5°	1655	1655	1649	1657	1658	157
15°	1582	1584	1586	1601	1602	446
25°	1440	1447	1462	1487	1492	663
35°	1249	1264	1290	1325	1338	781
45°	1024	1046	1089	1143	1163	790
55°	783	809	877	946	970	698
65°	525	570	659	737	765	521
75°	273	334	434	512	537	287
85°	58	112	145	155	155	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1661.8	1661.8	1661.8	1661.8	1661.8
2.5°	1661.8	1661.8	1653.5	1661.8	1661.8
5°	1655.2	1655.2	1648.6	1656.8	1658.5
7.5°	1643.6	1645.2	1638.6	1648.6	1650.2
10°	1627.1	1628.7	1625.4	1635.3	1637.0
12.5°	1607.3	1608.9	1608.9	1620.5	1622.1
15°	1582.5	1584.1	1585.8	1600.6	1602.3
17.5°	1551.1	1556.0	1559.4	1577.5	1580.8
20°	1518.1	1523.0	1529.6	1549.4	1552.7
22.5°	1480.1	1486.7	1498.2	1519.7	1524.7
25°	1440.4	1447.0	1461.9	1486.7	1491.6
27.5°	1395.8	1405.7	1423.9	1450.3	1456.9
30°	1349.6	1359.5	1381.0	1409.0	1418.9
32.5°	1300.0	1313.2	1338.0	1369.4	1379.3
35°	1248.8	1263.7	1290.1	1324.8	1338.0
37.5°	1194.3	1210.8	1242.2	1280.2	1296.7
40°	1138.1	1158.0	1191.0	1235.6	1253.8
42.5°	1082.0	1100.1	1141.4	1189.3	1209.2
45°	1024.2	1045.6	1088.6	1143.1	1162.9
47.5°	964.7	986.2	1037.4	1095.2	1113.4
50°	905.2	926.7	984.5	1045.6	1067.1
52.5°	840.8	868.9	935.0	996.1	1017.5
55°	783.0	809.4	877.1	946.5	969.6
57.5°	716.9	748.3	822.6	895.3	920.1
60°	655.8	688.8	768.1	842.4	867.2
62.5°	593.0	629.4	713.6	789.6	817.7
65°	525.3	569.9	659.1	736.7	764.8
67.5°	464.2	510.4	604.6	683.9	708.6
70°	394.8	451.0	546.8	626.1	654.1
72.5°	335.3	391.5	492.3	569.9	598.0
75°	272.6	333.7	434.4	512.1	536.9
77.5°	209.8	277.5	378.3	437.7	446.0
80°	150.3	221.3	313.9	348.5	360.1
82.5°	105.7	170.1	231.3	254.4	261.0
85°	57.8	112.3	145.4	155.3	155.3
87.5°	24.8	47.9	57.8	59.5	61.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)