

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: P276205

Luminaire Tested: **24CZ2-45HE-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276205
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: 24CZ2-45HE-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3457.7 lumens
Efficiency: N/A
Efficacy: 111.0 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

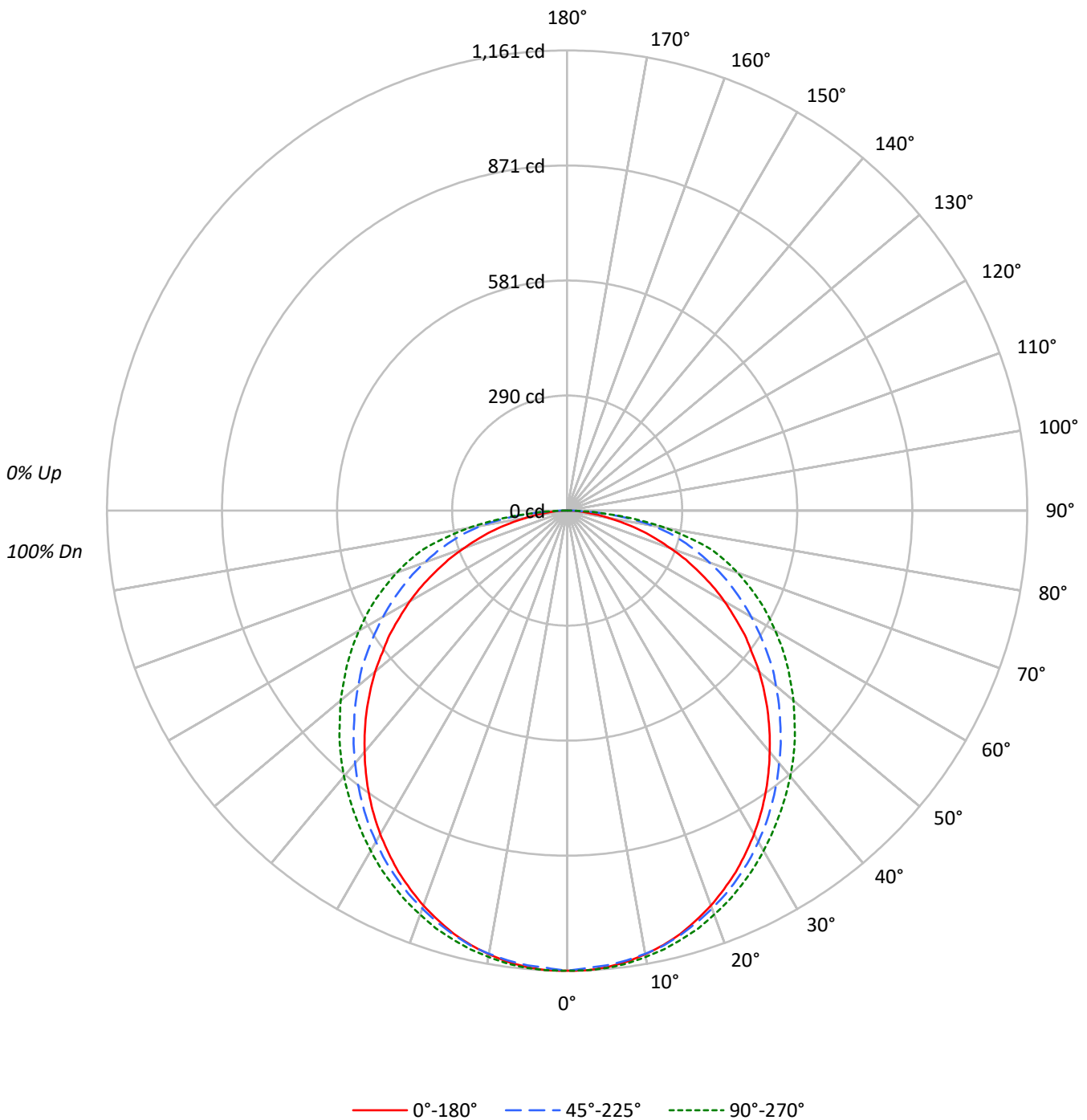
Input Watts (W): 31.155
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1562	1562	1562
5°	1562	1556	1565
10°	1553	1551	1562
15°	1540	1543	1559
20°	1518	1530	1553
25°	1494	1516	1547
30°	1465	1499	1540
35°	1433	1480	1535
40°	1397	1461	1538
45°	1361	1447	1546
50°	1324	1440	1560
55°	1283	1437	1589
60°	1233	1444	1630
65°	1168	1466	1701
70°	1085	1503	1798
75°	990	1578	1949
80°	814	1699	1949
85°	624	1567	1675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	3.2
10°-20°	313.4	9.1
20°-30°	471.7	13.6
30°-40°	565.3	16.3
40°-50°	589.1	17.0
50°-60°	548.1	15.9
60°-70°	451.4	13.1
70°-80°	307.4	8.9
80°-90°	101.5	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°	894.9	25.9
0°-40°	1460.2	42.2
0°-60°	2597.3	75.1
0°-90°	3457.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3457.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1156	1156	1152	1157	1159	110
15°	1106	1107	1108	1118	1119	311
25°	1006	1011	1021	1039	1042	463
35°	872	883	901	926	935	545
45°	716	730	760	798	812	552
55°	547	565	613	661	677	488
65°	367	398	460	515	534	364
75°	190	233	304	358	375	201
85°	40	78	102	108	108	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1160.9	1160.9	1160.9	1160.9	1160.9
2.5°	1160.9	1160.9	1155.1	1160.9	1160.9
5°	1156.3	1156.3	1151.7	1157.4	1158.6
7.5°	1148.2	1149.3	1144.7	1151.7	1152.8
10°	1136.7	1137.8	1135.5	1142.4	1143.6
12.5°	1122.8	1124.0	1124.0	1132.0	1133.2
15°	1105.5	1106.7	1107.8	1118.2	1119.3
17.5°	1083.6	1087.0	1089.3	1102.0	1104.3
20°	1060.5	1064.0	1068.6	1082.4	1084.7
22.5°	1034.0	1038.6	1046.6	1061.6	1065.1
25°	1006.3	1010.9	1021.3	1038.6	1042.0
27.5°	975.1	982.0	994.7	1013.2	1017.8
30°	942.8	949.7	964.7	984.3	991.3
32.5°	908.2	917.4	934.7	956.6	963.6
35°	872.4	882.8	901.2	925.5	934.7
37.5°	834.3	845.9	867.8	894.3	905.9
40°	795.1	808.9	832.0	863.2	875.9
42.5°	755.8	768.5	797.4	830.9	844.7
45°	715.5	730.5	760.5	798.5	812.4
47.5°	673.9	688.9	724.7	765.1	777.8
50°	632.4	647.4	687.8	730.5	745.5
52.5°	587.4	607.0	653.1	695.8	710.8
55°	547.0	565.4	612.8	661.2	677.4
57.5°	500.8	522.7	574.7	625.4	642.8
60°	458.1	481.2	536.6	588.5	605.8
62.5°	414.3	439.7	498.5	551.6	571.2
65°	367.0	398.1	460.4	514.7	534.3
67.5°	324.3	356.6	422.4	477.7	495.1
70°	275.8	315.0	382.0	437.4	457.0
72.5°	234.3	273.5	343.9	398.1	417.7
75°	190.4	233.1	303.5	357.7	375.0
77.5°	146.6	193.9	264.3	305.8	311.6
80°	105.0	154.6	219.3	243.5	251.6
82.5°	73.9	118.9	161.6	177.7	182.3
85°	40.4	78.5	101.5	108.5	108.5
87.5°	17.3	33.5	40.4	41.5	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)