

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: P275900

Luminaire Tested: **24CZ2-35HE-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275900
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: 24CZ2-35HE-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3529.0 lumens
Efficiency: N/A
Efficacy: 139.0 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

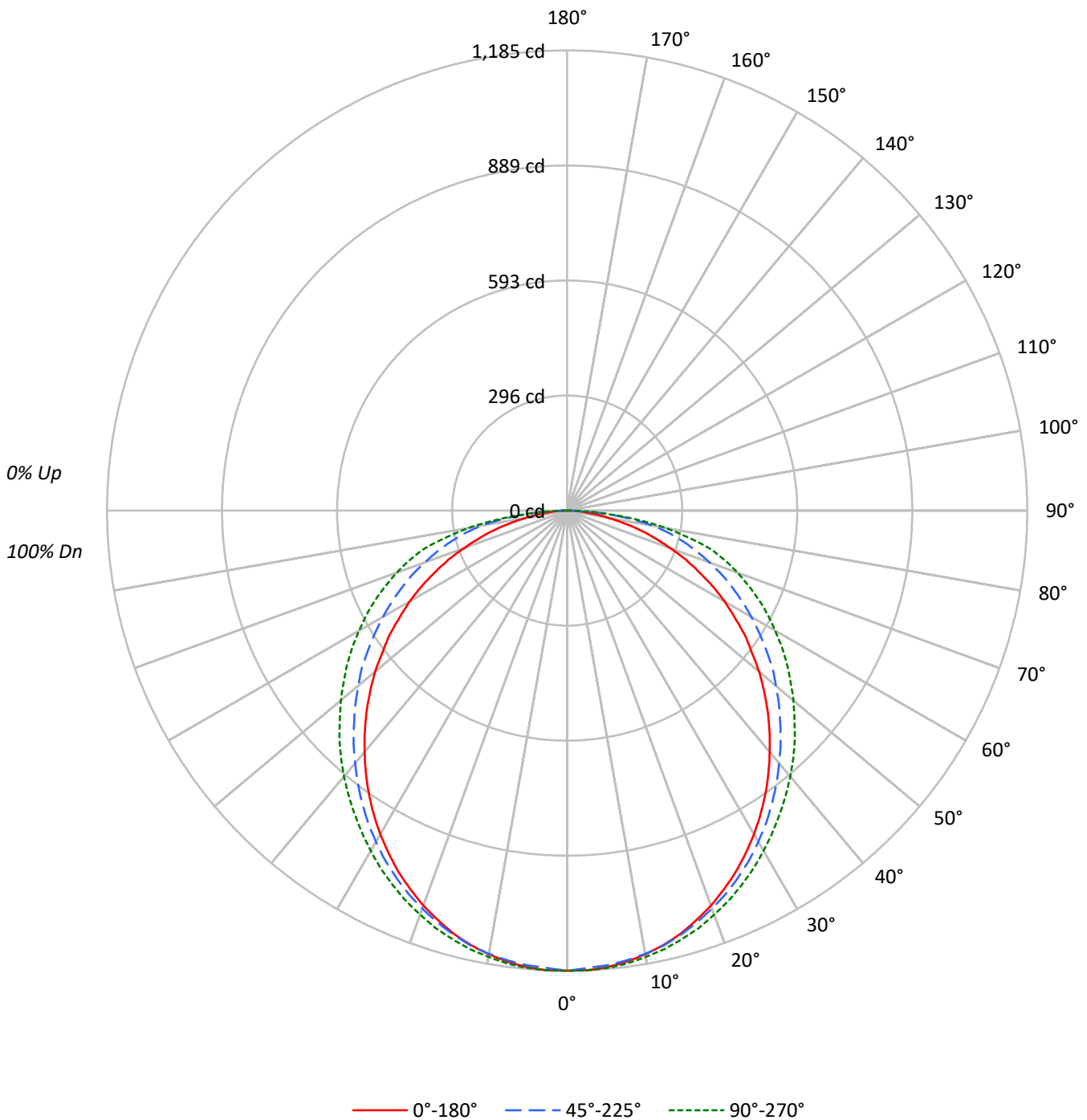
Input Watts (W): 25.389
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1594	1594	1594
5°	1594	1588	1597
10°	1585	1583	1595
15°	1572	1575	1591
20°	1550	1562	1585
25°	1525	1547	1579
30°	1495	1530	1572
35°	1463	1511	1567
40°	1425	1492	1570
45°	1389	1477	1578
50°	1351	1469	1593
55°	1310	1467	1622
60°	1258	1474	1664
65°	1192	1496	1736
70°	1107	1533	1835
75°	1010	1611	1990
80°	831	1734	1990
85°	636	1599	1709



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	3.2
10°-20°	319.9	9.1
20°-30°	481.4	13.6
30°-40°	576.9	16.3
40°-50°	601.2	17.0
50°-60°	559.4	15.9
60°-70°	460.7	13.1
70°-80°	313.8	8.9
80°-90°	103.6	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°	913.4	25.9
0°-40°	1490.3	42.2
0°-60°	2650.9	75.1
0°-90°	3529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1180	1180	1175	1181	1182	112
15°	1128	1130	1131	1141	1142	318
25°	1027	1032	1042	1060	1064	473
35°	890	901	920	945	954	557
45°	730	746	776	815	829	563
55°	558	577	625	675	691	498
65°	374	406	470	525	545	372
75°	194	238	310	365	383	205
85°	41	80	104	111	111	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1184.8	1184.8	1184.8	1184.8	1184.8
2.5°	1184.8	1184.8	1179.0	1184.8	1184.8
5°	1180.1	1180.1	1175.4	1181.3	1182.5
7.5°	1171.9	1173.1	1168.4	1175.4	1176.6
10°	1160.1	1161.3	1158.9	1166.0	1167.2
12.5°	1146.0	1147.2	1147.2	1155.4	1156.6
15°	1128.3	1129.5	1130.7	1141.3	1142.4
17.5°	1105.9	1109.5	1111.8	1124.8	1127.1
20°	1082.4	1085.9	1090.6	1104.8	1107.1
22.5°	1055.3	1060.0	1068.2	1083.6	1087.1
25°	1027.0	1031.7	1042.3	1060.0	1063.5
27.5°	995.2	1002.3	1015.2	1034.1	1038.8
30°	962.2	969.3	984.6	1004.6	1011.7
32.5°	926.9	936.3	954.0	976.4	983.4
35°	890.4	901.0	919.8	944.6	954.0
37.5°	851.5	863.3	885.7	912.8	924.6
40°	811.5	825.6	849.2	881.0	893.9
42.5°	771.4	784.4	813.8	848.0	862.1
45°	730.2	745.5	776.2	815.0	829.2
47.5°	687.8	703.1	739.6	780.9	793.8
50°	645.4	660.7	702.0	745.5	760.8
52.5°	599.5	619.5	666.6	710.2	725.5
55°	558.3	577.1	625.4	674.9	691.4
57.5°	511.2	533.5	586.5	638.4	656.0
60°	467.6	491.1	547.7	600.7	618.3
62.5°	422.8	448.7	508.8	563.0	583.0
65°	374.5	406.3	469.9	525.3	545.3
67.5°	331.0	363.9	431.1	487.6	505.3
70°	281.5	321.5	389.8	446.4	466.4
72.5°	239.1	279.1	351.0	406.3	426.4
75°	194.3	237.9	309.8	365.1	382.8
77.5°	149.6	197.9	269.7	312.1	318.0
80°	107.2	157.8	223.8	248.5	256.8
82.5°	75.4	121.3	164.9	181.4	186.1
85°	41.2	80.1	103.6	110.7	110.7
87.5°	17.7	34.2	41.2	42.4	43.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)