

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: P276561

Luminaire Tested: **24CZ2-35-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35-S-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3244.4 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

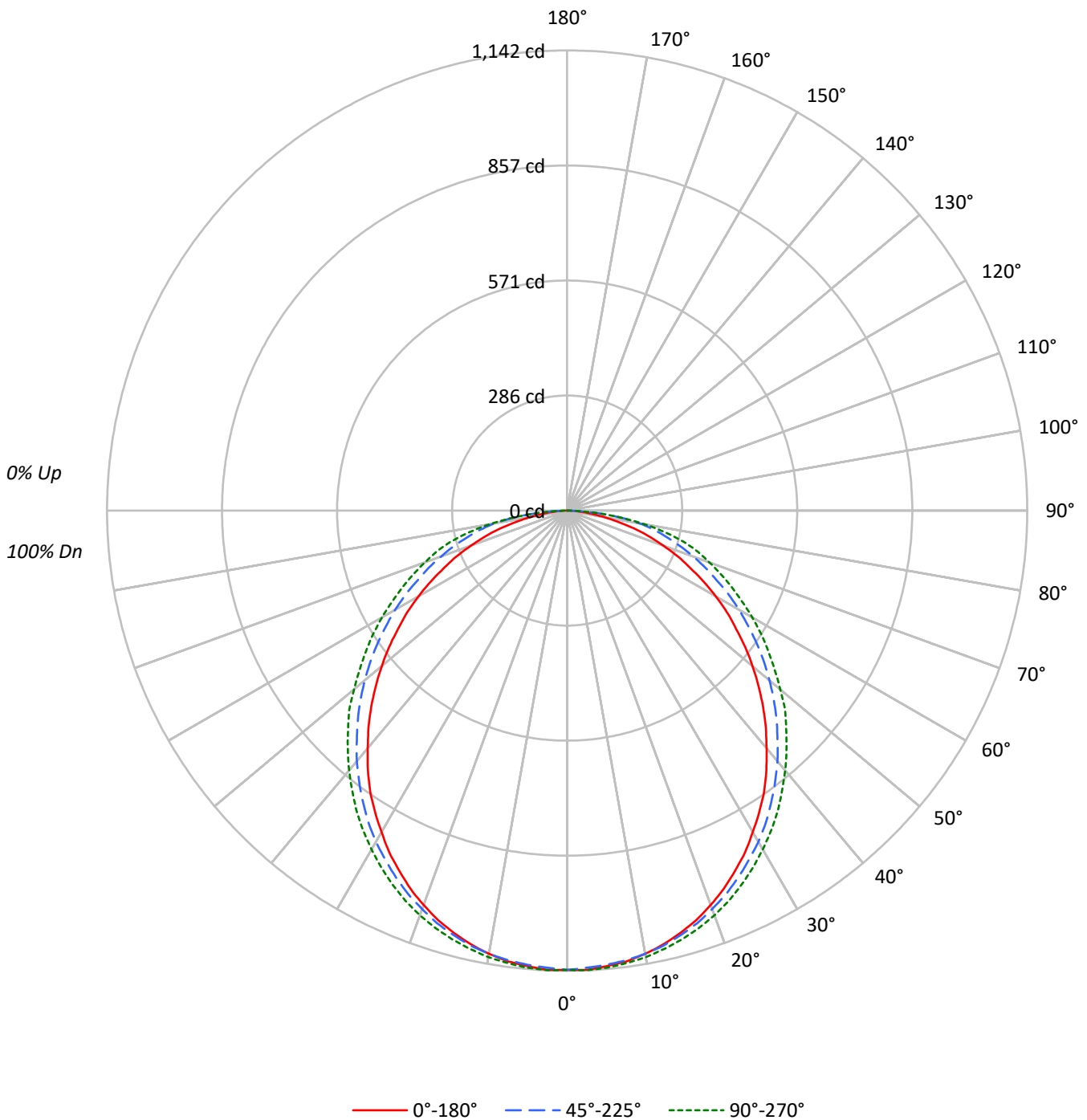
Input Watts (W): 26.04
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1534	1534	1534
5°	1532	1528	1538
10°	1526	1526	1538
15°	1512	1519	1534
20°	1492	1507	1530
25°	1464	1492	1521
30°	1431	1475	1508
35°	1400	1451	1496
40°	1352	1426	1479
45°	1308	1398	1463
50°	1258	1372	1445
55°	1202	1346	1431
60°	1145	1326	1428
65°	1073	1302	1437
70°	993	1310	1476
75°	889	1334	1559
80°	718	1413	1525
85°	540	1241	1209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	3.3
10°-20°	308.3	9.5
20°-30°	463.5	14.3
30°-40°	552.1	17.0
40°-50°	565.0	17.4
50°-60°	508.7	15.7
60°-70°	399.5	12.3
70°-80°	259.3	8.0
80°-90°	80.2	2.5
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°	879.7	27.1
0°-40°	1431.8	44.1
0°-60°	2505.5	77.2
0°-90°	3244.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3244.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1135	1137	1132	1138	1139	108
15°	1085	1088	1090	1100	1102	306
25°	986	994	1005	1021	1024	454
35°	852	863	883	905	911	532
45°	687	704	735	763	769	530
55°	512	535	574	604	610	459
65°	337	363	409	443	451	335
75°	171	204	257	292	300	181
85°	35	65	80	78	78	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1139.8	1139.8	1139.8	1139.8	1139.8
2.5°	1140.8	1140.8	1135.7	1140.8	1141.8
5°	1134.6	1136.7	1131.5	1137.7	1138.7
7.5°	1128.4	1128.4	1125.4	1131.5	1132.6
10°	1117.1	1118.1	1117.1	1124.3	1125.4
12.5°	1102.7	1104.7	1105.8	1113.0	1114.0
15°	1085.2	1088.3	1090.3	1099.6	1101.6
17.5°	1065.6	1068.7	1073.8	1084.1	1086.2
20°	1041.9	1046.0	1052.2	1065.6	1068.7
22.5°	1016.1	1020.2	1030.5	1042.9	1048.1
25°	986.2	994.5	1004.8	1021.3	1024.4
27.5°	956.3	963.6	977.0	994.5	998.6
30°	921.3	932.6	949.1	966.6	970.8
32.5°	887.3	898.6	918.2	936.8	941.9
35°	852.3	862.6	883.2	904.8	911.0
37.5°	812.1	825.5	848.1	869.8	876.0
40°	769.8	786.3	812.1	834.7	842.0
42.5°	729.6	747.1	772.9	797.6	805.9
45°	687.4	703.9	734.8	762.6	768.8
47.5°	644.1	662.6	695.6	723.4	733.7
50°	600.8	620.4	655.4	684.3	690.5
52.5°	557.5	578.1	615.2	646.1	649.2
55°	512.2	534.9	574.0	603.9	610.1
57.5°	471.0	490.5	532.8	563.7	570.9
60°	425.6	447.3	492.6	521.5	530.7
62.5°	382.3	405.0	452.4	481.3	489.5
65°	337.0	362.8	409.1	443.1	451.4
67.5°	297.8	322.6	372.0	405.0	413.2
70°	252.5	280.3	332.9	366.9	375.1
72.5°	213.3	242.2	294.7	327.7	340.1
75°	171.1	204.0	256.6	291.6	299.9
77.5°	129.8	168.0	221.6	248.4	248.4
80°	92.7	132.9	182.4	194.8	196.8
82.5°	60.8	100.0	135.0	134.0	134.0
85°	35.0	64.9	80.4	78.3	78.3
87.5°	13.4	26.8	28.9	28.9	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)