

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: P261132

Luminaire Tested: **24CZ-LD5-35-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35-S-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3388.0 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

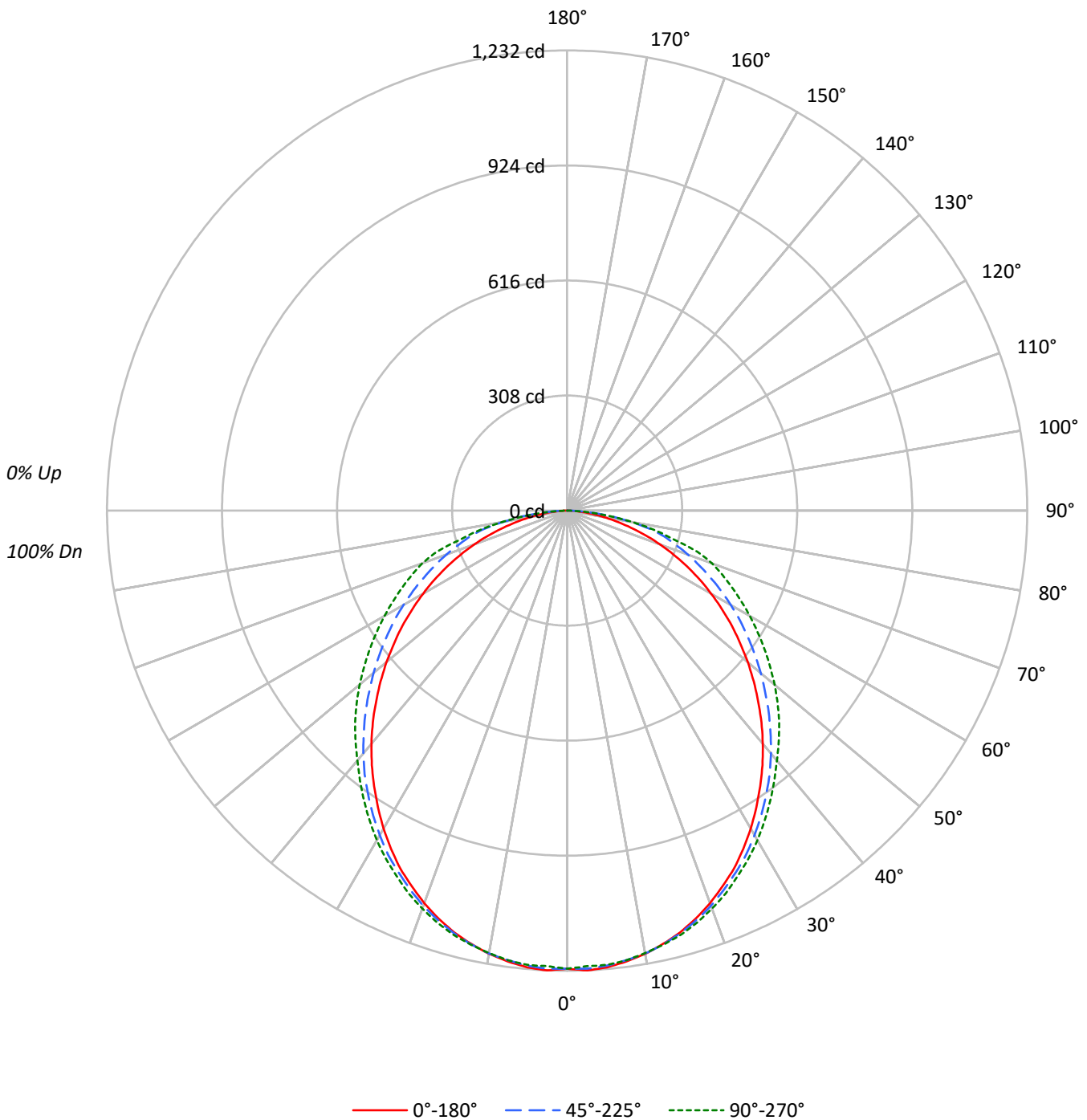
Input Watts (W): 23.994
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1650	1650	1650
5°	1658	1652	1649
10°	1646	1645	1643
15°	1628	1632	1638
20°	1601	1613	1624
25°	1570	1587	1603
30°	1527	1559	1583
35°	1479	1526	1557
40°	1431	1491	1535
45°	1377	1452	1527
50°	1321	1416	1517
55°	1264	1386	1513
60°	1198	1362	1520
65°	1127	1346	1550
70°	1038	1352	1623
75°	920	1400	1512
80°	769	1328	1363
85°	574	1062	974



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	3.4
10°-20°	329.8	9.7
20°-30°	491.5	14.5
30°-40°	578.6	17.1
40°-50°	587.9	17.4
50°-60°	528.6	15.6
60°-70°	417.6	12.3
70°-80°	264.9	7.8
80°-90°	73.1	2.2
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°	937.3	27.7
0°-40°	1515.8	44.7
0°-60°	2632.4	77.7
0°-90°	3388.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3388.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1226	1226	1226	1226	1226	
5°	1228	1218	1223	1221	1221	116
15°	1169	1163	1171	1175	1176	329
25°	1057	1056	1069	1076	1080	486
35°	901	906	929	939	948	564
45°	724	734	763	786	803	558
55°	539	552	591	629	645	481
65°	354	372	423	469	487	351
75°	177	207	269	293	291	188
85°	37	64	69	63	63	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1226.5	1226.5	1226.5	1226.5	1226.5
2.5°	1232.2	1223.1	1227.6	1225.4	1220.9
5°	1227.6	1217.5	1223.1	1220.9	1220.9
7.5°	1217.5	1209.6	1214.1	1213.0	1214.1
10°	1205.1	1197.2	1204.0	1204.0	1202.8
12.5°	1188.2	1181.4	1189.3	1189.3	1190.4
15°	1169.0	1163.4	1171.3	1174.7	1175.8
17.5°	1145.4	1139.7	1149.9	1153.2	1156.6
20°	1118.3	1116.0	1126.2	1129.6	1134.1
22.5°	1087.9	1087.9	1098.0	1102.5	1109.3
25°	1057.4	1056.3	1068.7	1075.5	1080.0
27.5°	1021.3	1022.5	1038.3	1045.0	1050.7
30°	983.0	985.3	1003.3	1011.2	1019.1
32.5°	942.4	946.9	967.2	976.3	984.1
35°	900.7	906.4	928.9	939.1	948.1
37.5°	859.0	866.9	890.6	900.7	910.9
40°	815.0	821.8	848.9	861.3	873.7
42.5°	770.0	779.0	806.0	824.1	838.7
45°	723.7	733.9	763.2	785.7	802.6
47.5°	677.5	691.0	719.2	749.7	764.3
50°	631.3	644.8	676.4	710.2	724.9
52.5°	583.9	597.5	633.6	668.5	684.3
55°	538.9	552.4	590.7	629.0	644.8
57.5°	491.5	506.2	549.0	588.5	604.2
60°	445.3	459.9	506.2	547.9	564.8
62.5°	400.2	416.0	464.5	508.4	525.3
65°	354.0	372.0	422.7	469.0	487.0
67.5°	308.9	329.2	382.2	430.6	449.8
70°	263.8	287.5	343.8	393.4	412.6
72.5°	219.8	245.8	305.5	355.1	365.2
75°	177.0	207.4	269.4	293.1	290.8
77.5°	136.4	170.2	228.8	233.4	240.1
80°	99.2	136.4	171.4	180.4	175.9
82.5°	65.4	102.6	122.9	118.4	117.2
85°	37.2	64.3	68.8	63.1	63.1
87.5°	15.8	25.9	22.5	16.9	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)