

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: P261124

Luminaire Tested: **24CZ-LD5-30-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261124
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-LD5-30-S-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3058.0 lumens
Efficiency: N/A
Efficacy: 155.1 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

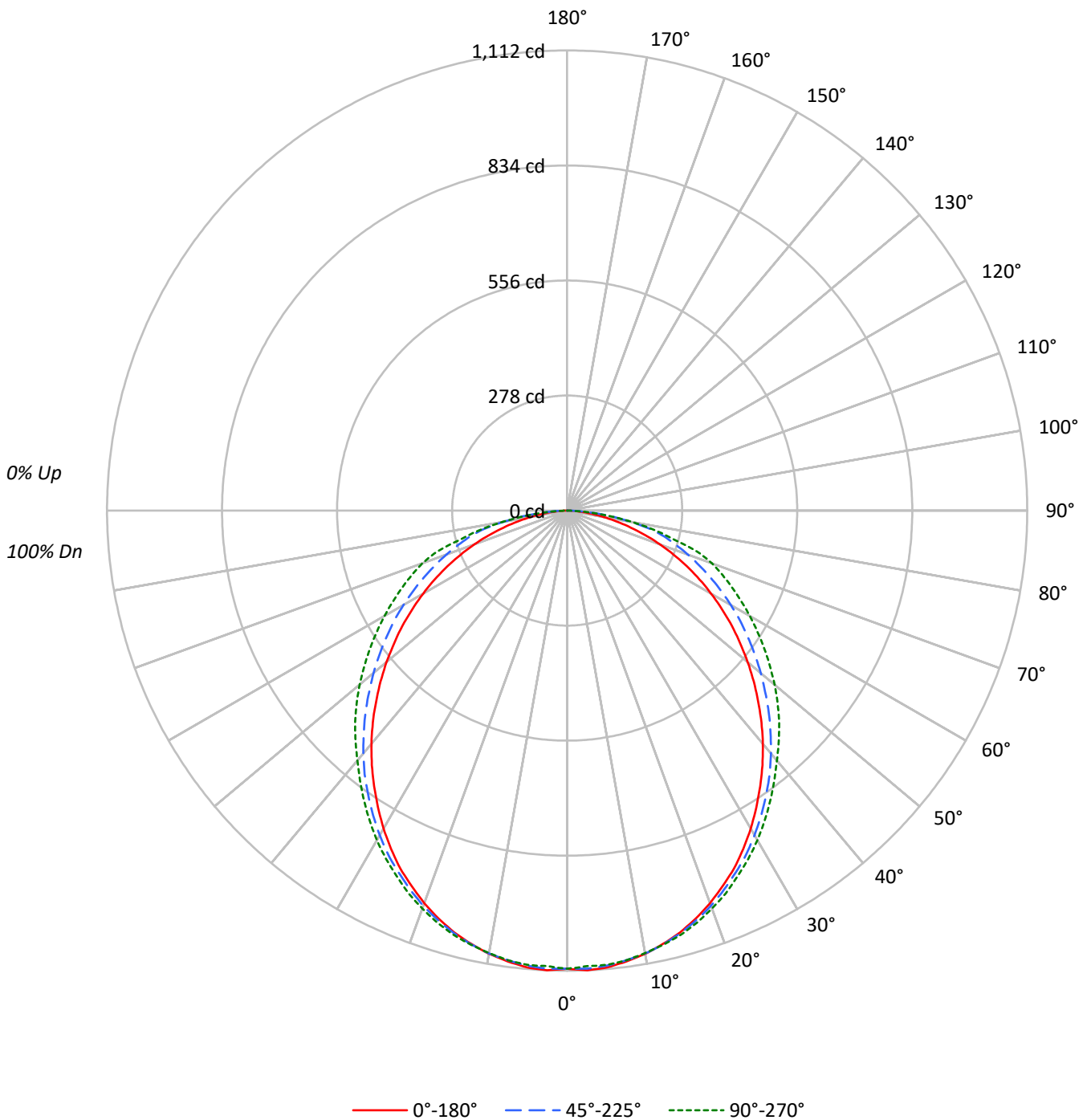
Input Watts (W): 19.716
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1490	1490	1490
5°	1497	1491	1488
10°	1486	1485	1483
15°	1470	1473	1478
20°	1445	1455	1466
25°	1417	1432	1447
30°	1379	1407	1429
35°	1335	1377	1406
40°	1292	1346	1385
45°	1243	1311	1379
50°	1193	1278	1370
55°	1141	1251	1365
60°	1082	1230	1372
65°	1017	1215	1400
70°	937	1221	1465
75°	830	1264	1365
80°	693	1199	1230
85°	519	959	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	3.4
10°-20°	297.7	9.7
20°-30°	443.6	14.5
30°-40°	522.2	17.1
40°-50°	530.7	17.4
50°-60°	477.1	15.6
60°-70°	376.9	12.3
70°-80°	239.1	7.8
80°-90°	66.0	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°	846.0	27.7
0°-40°	1368.2	44.7
0°-60°	2375.9	77.7
0°-90°	3058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1107	1107	1107	1107	1107	
5°	1108	1099	1104	1102	1102	105
15°	1055	1050	1057	1060	1061	297
25°	954	953	965	971	975	439
35°	813	818	838	848	856	509
45°	653	662	689	709	724	504
55°	486	499	533	568	582	434
65°	320	336	382	423	440	316
75°	160	187	243	265	262	170
85°	34	58	62	57	57	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1107.1	1107.1	1107.1	1107.1	1107.1
2.5°	1112.1	1104.0	1108.1	1106.0	1102.0
5°	1108.1	1098.9	1104.0	1102.0	1102.0
7.5°	1098.9	1091.8	1095.9	1094.8	1095.9
10°	1087.7	1080.6	1086.7	1086.7	1085.7
12.5°	1072.5	1066.4	1073.5	1073.5	1074.5
15°	1055.2	1050.1	1057.2	1060.2	1061.3
17.5°	1033.8	1028.7	1037.9	1040.9	1044.0
20°	1009.4	1007.3	1016.5	1019.5	1023.6
22.5°	981.9	981.9	991.1	995.1	1001.2
25°	954.4	953.4	964.6	970.7	974.8
27.5°	921.9	922.9	937.1	943.2	948.3
30°	887.3	889.3	905.6	912.7	919.8
32.5°	850.6	854.7	873.0	881.2	888.3
35°	813.0	818.1	838.4	847.6	855.7
37.5°	775.3	782.5	803.8	813.0	822.1
40°	735.7	741.8	766.2	777.4	788.6
42.5°	695.0	703.1	727.5	743.8	757.0
45°	653.2	662.4	688.9	709.2	724.5
47.5°	611.5	623.7	649.2	676.6	689.9
50°	569.8	582.0	610.5	641.0	654.3
52.5°	527.1	539.3	571.8	603.4	617.6
55°	486.4	498.6	533.2	567.8	582.0
57.5°	443.6	456.9	495.5	531.1	545.4
60°	401.9	415.1	456.9	494.5	509.8
62.5°	361.2	375.5	419.2	458.9	474.2
65°	319.5	335.8	381.6	423.3	439.6
67.5°	278.8	297.1	344.9	388.7	406.0
70°	238.1	259.5	310.3	355.1	372.4
72.5°	198.4	221.8	275.7	320.5	329.7
75°	159.7	187.2	243.2	264.6	262.5
77.5°	123.1	153.6	206.6	210.6	216.7
80°	89.5	123.1	154.7	162.8	158.7
82.5°	59.0	92.6	110.9	106.8	105.8
85°	33.6	58.0	62.1	57.0	57.0
87.5°	14.2	23.4	20.4	15.3	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)