

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: P261126

Luminaire Tested: **24CZ-LD5-30-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261126
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-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3181.0 lumens
Efficiency: N/A
Efficacy: 159.1 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

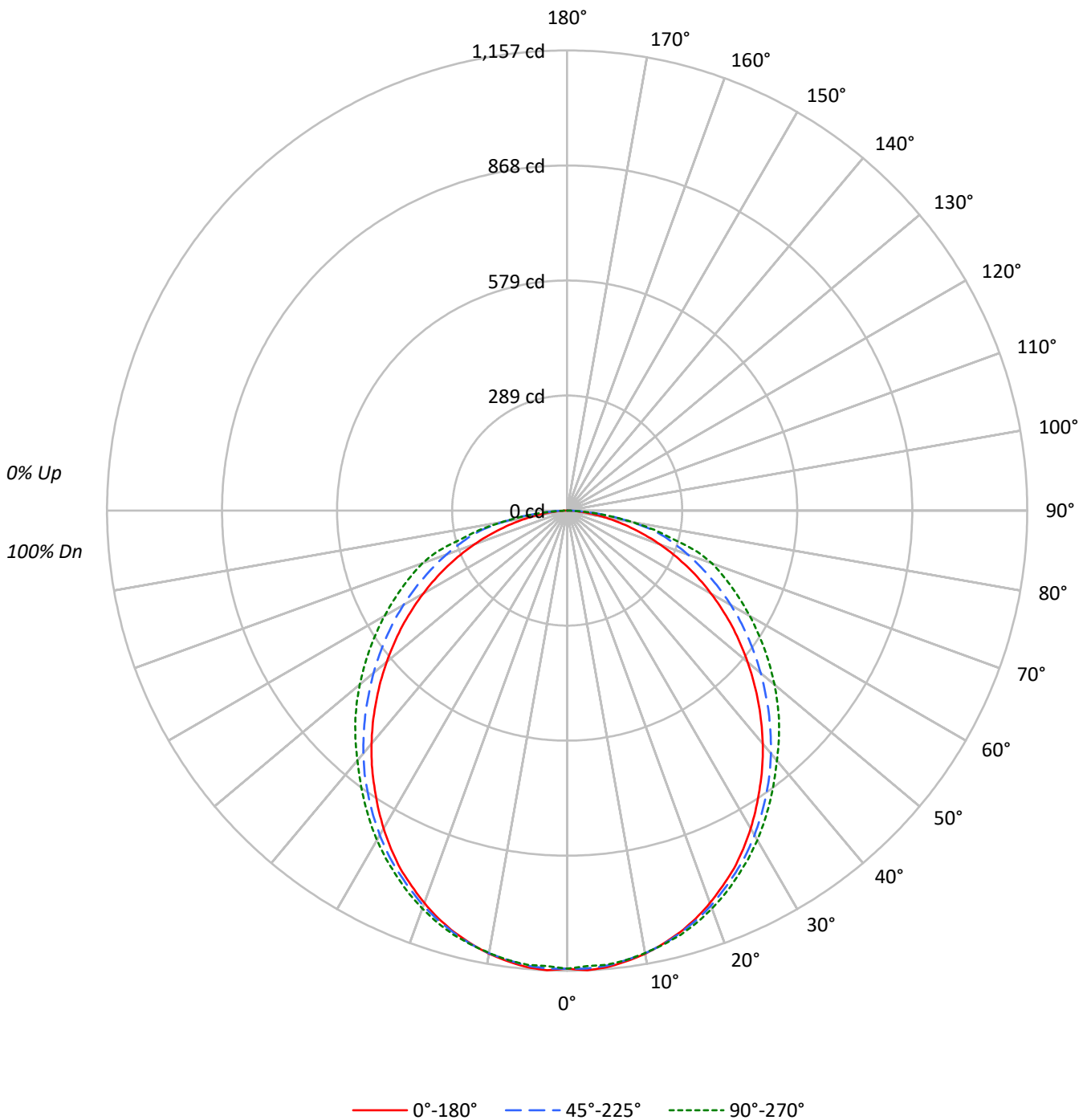
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1549	1549	1549
5°	1557	1551	1548
10°	1546	1544	1543
15°	1529	1532	1538
20°	1503	1514	1525
25°	1474	1490	1505
30°	1434	1464	1487
35°	1389	1433	1462
40°	1344	1400	1441
45°	1293	1364	1434
50°	1241	1329	1425
55°	1187	1301	1420
60°	1125	1279	1427
65°	1058	1264	1456
70°	974	1270	1524
75°	864	1315	1420
80°	721	1247	1279
85°	539	997	915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	3.4
10°-20°	309.7	9.7
20°-30°	461.5	14.5
30°-40°	543.2	17.1
40°-50°	552.0	17.4
50°-60°	496.3	15.6
60°-70°	392.1	12.3
70°-80°	248.7	7.8
80°-90°	68.7	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°	880.0	27.7
0°-40°	1423.2	44.7
0°-60°	2471.5	77.7
0°-90°	3181.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3181.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1152	1152	1152	1152	1152	
5°	1153	1143	1148	1146	1146	109
15°	1098	1092	1100	1103	1104	309
25°	993	992	1003	1010	1014	456
35°	846	851	872	882	890	529
45°	680	689	717	738	754	524
55°	506	519	555	591	605	452
65°	332	349	397	440	457	329
75°	166	195	253	275	273	177
85°	35	60	65	59	59	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1151.6	1151.6	1151.6	1151.6	1151.6
2.5°	1156.9	1148.4	1152.6	1150.5	1146.3
5°	1152.6	1143.1	1148.4	1146.3	1146.3
7.5°	1143.1	1135.7	1139.9	1138.9	1139.9
10°	1131.5	1124.1	1130.4	1130.4	1129.4
12.5°	1115.6	1109.2	1116.7	1116.7	1117.7
15°	1097.6	1092.3	1099.7	1102.9	1104.0
17.5°	1075.4	1070.1	1079.6	1082.8	1086.0
20°	1050.0	1047.9	1057.4	1060.6	1064.8
22.5°	1021.4	1021.4	1030.9	1035.2	1041.5
25°	992.8	991.8	1003.4	1009.7	1014.0
27.5°	958.9	960.0	974.8	981.2	986.5
30°	923.0	925.1	942.0	949.4	956.8
32.5°	884.9	889.1	908.1	916.6	924.0
35°	845.7	851.0	872.2	881.7	890.1
37.5°	806.5	813.9	836.2	845.7	855.2
40°	765.3	771.6	797.0	808.6	820.3
42.5°	722.9	731.4	756.8	773.7	787.5
45°	679.5	689.0	716.6	737.7	753.6
47.5°	636.1	648.8	675.3	703.9	717.6
50°	592.7	605.4	635.1	666.8	680.6
52.5°	548.3	561.0	594.8	627.7	642.5
55°	505.9	518.6	554.6	590.6	605.4
57.5°	461.5	475.2	515.5	552.5	567.3
60°	418.1	431.8	475.2	514.4	530.3
62.5°	375.7	390.6	436.1	477.4	493.2
65°	332.3	349.3	396.9	440.3	457.2
67.5°	290.0	309.1	358.8	404.3	422.3
70°	247.7	269.9	322.8	369.4	387.4
72.5°	206.4	230.7	286.8	333.4	342.9
75°	166.2	194.8	253.0	275.2	273.1
77.5°	128.1	159.8	214.9	219.1	225.4
80°	93.1	128.1	160.9	169.4	165.1
82.5°	61.4	96.3	115.4	111.1	110.1
85°	34.9	60.3	64.6	59.3	59.3
87.5°	14.8	24.3	21.2	15.9	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)