

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: P261129

Luminaire Tested: **24CZ-LD5-30-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261129
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3265.0 lumens
Efficiency: N/A
Efficacy: 161.8 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

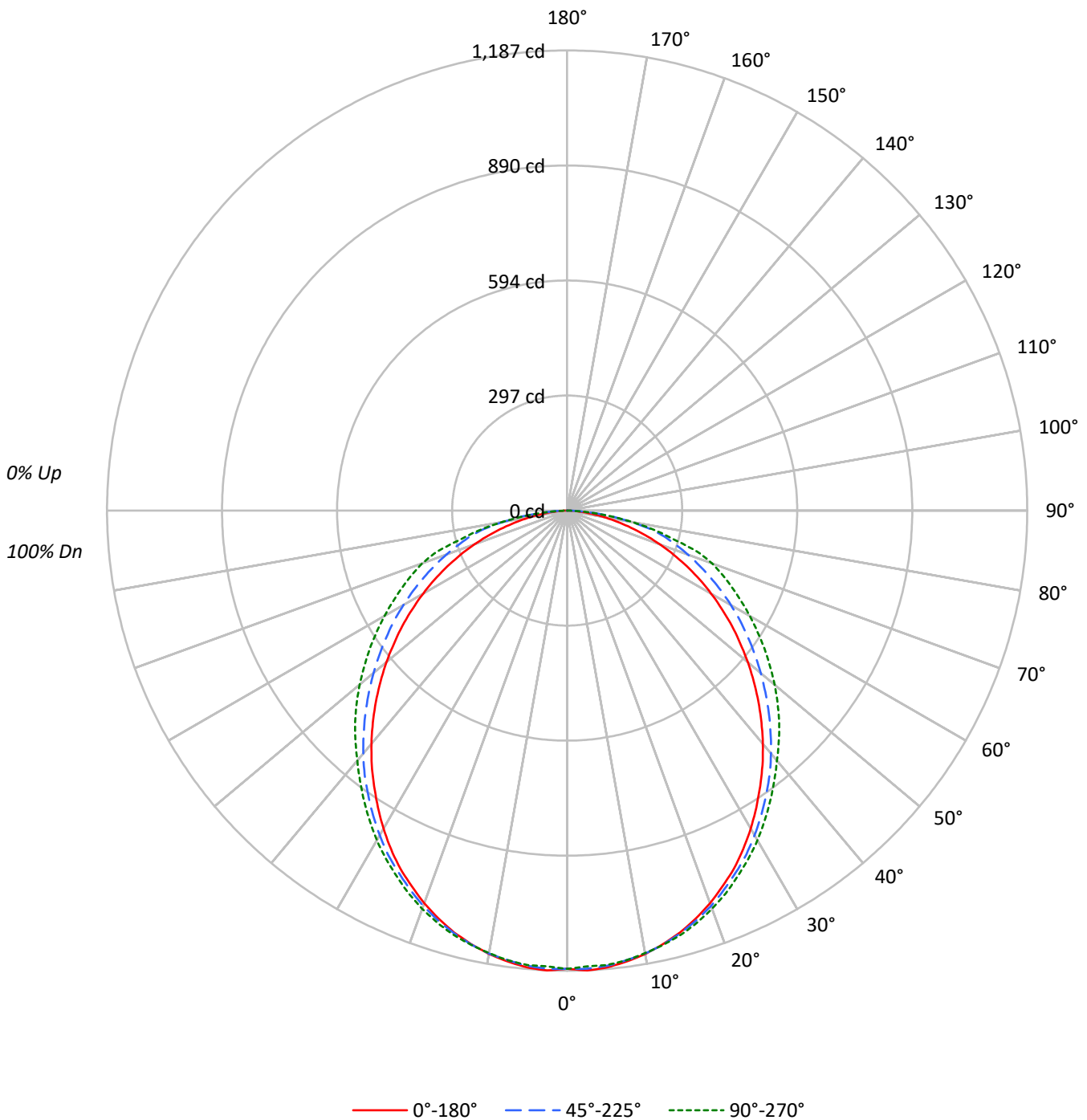
Input Watts (W): 20.181
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1590	1590	1590
5°	1598	1592	1589
10°	1587	1585	1584
15°	1569	1572	1578
20°	1543	1554	1565
25°	1513	1529	1545
30°	1472	1502	1526
35°	1426	1470	1501
40°	1380	1437	1479
45°	1327	1400	1472
50°	1274	1364	1462
55°	1218	1335	1458
60°	1155	1313	1465
65°	1086	1297	1494
70°	1000	1303	1564
75°	887	1350	1457
80°	741	1279	1313
85°	554	1024	939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	3.4
10°-20°	317.8	9.7
20°-30°	473.6	14.5
30°-40°	557.6	17.1
40°-50°	566.6	17.4
50°-60°	509.4	15.6
60°-70°	402.4	12.3
70°-80°	255.3	7.8
80°-90°	70.5	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°	903.2	27.7
0°-40°	1460.8	44.7
0°-60°	2536.8	77.7
0°-90°	3265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1183	1173	1179	1177	1177	112
15°	1127	1121	1129	1132	1133	317
25°	1019	1018	1030	1036	1041	469
35°	868	874	895	905	914	543
45°	698	707	736	757	774	538
55°	519	532	569	606	621	464
65°	341	358	407	452	469	338
75°	171	200	260	282	280	182
85°	36	62	66	61	61	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1182.0	1182.0	1182.0	1182.0	1182.0
2.5°	1187.4	1178.7	1183.1	1180.9	1176.6
5°	1183.1	1173.3	1178.7	1176.6	1176.6
7.5°	1173.3	1165.7	1170.0	1169.0	1170.0
10°	1161.3	1153.7	1160.3	1160.3	1159.2
12.5°	1145.1	1138.5	1146.1	1146.1	1147.2
15°	1126.6	1121.2	1128.8	1132.0	1133.1
17.5°	1103.8	1098.3	1108.1	1111.4	1114.6
20°	1077.7	1075.5	1085.3	1088.6	1092.9
22.5°	1048.4	1048.4	1058.1	1062.5	1069.0
25°	1019.0	1017.9	1029.9	1036.4	1040.8
27.5°	984.3	985.4	1000.6	1007.1	1012.5
30°	947.3	949.5	966.9	974.5	982.1
32.5°	908.2	912.6	932.1	940.8	948.4
35°	868.0	873.5	895.2	905.0	913.7
37.5°	827.8	835.4	858.2	868.0	877.8
40°	785.5	792.0	818.1	830.0	842.0
42.5°	742.0	750.7	776.8	794.1	808.3
45°	697.5	707.2	735.5	757.2	773.5
47.5°	652.9	666.0	693.1	722.4	736.6
50°	608.4	621.4	651.8	684.4	698.5
52.5°	562.7	575.8	610.6	644.2	659.4
55°	519.3	532.3	569.3	606.2	621.4
57.5°	473.7	487.8	529.1	567.1	582.3
60°	429.1	443.2	487.8	528.0	544.3
62.5°	385.7	400.9	447.6	490.0	506.3
65°	341.1	358.5	407.4	451.9	469.3
67.5°	297.7	317.2	368.3	415.0	433.5
70°	254.2	277.0	331.3	379.1	397.6
72.5°	211.8	236.8	294.4	342.2	352.0
75°	170.6	199.9	259.6	282.5	280.3
77.5°	131.5	164.0	220.5	224.9	231.4
80°	95.6	131.5	165.1	173.8	169.5
82.5°	63.0	98.9	118.4	114.1	113.0
85°	35.9	61.9	66.3	60.8	60.8
87.5°	15.2	25.0	21.7	16.3	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)