

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: P261220

Luminaire Tested: **24CZ-LD5-30SE-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261220
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-LD5-30SE-S-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3233.0 lumens
Efficiency: N/A
Efficacy: 142.5 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

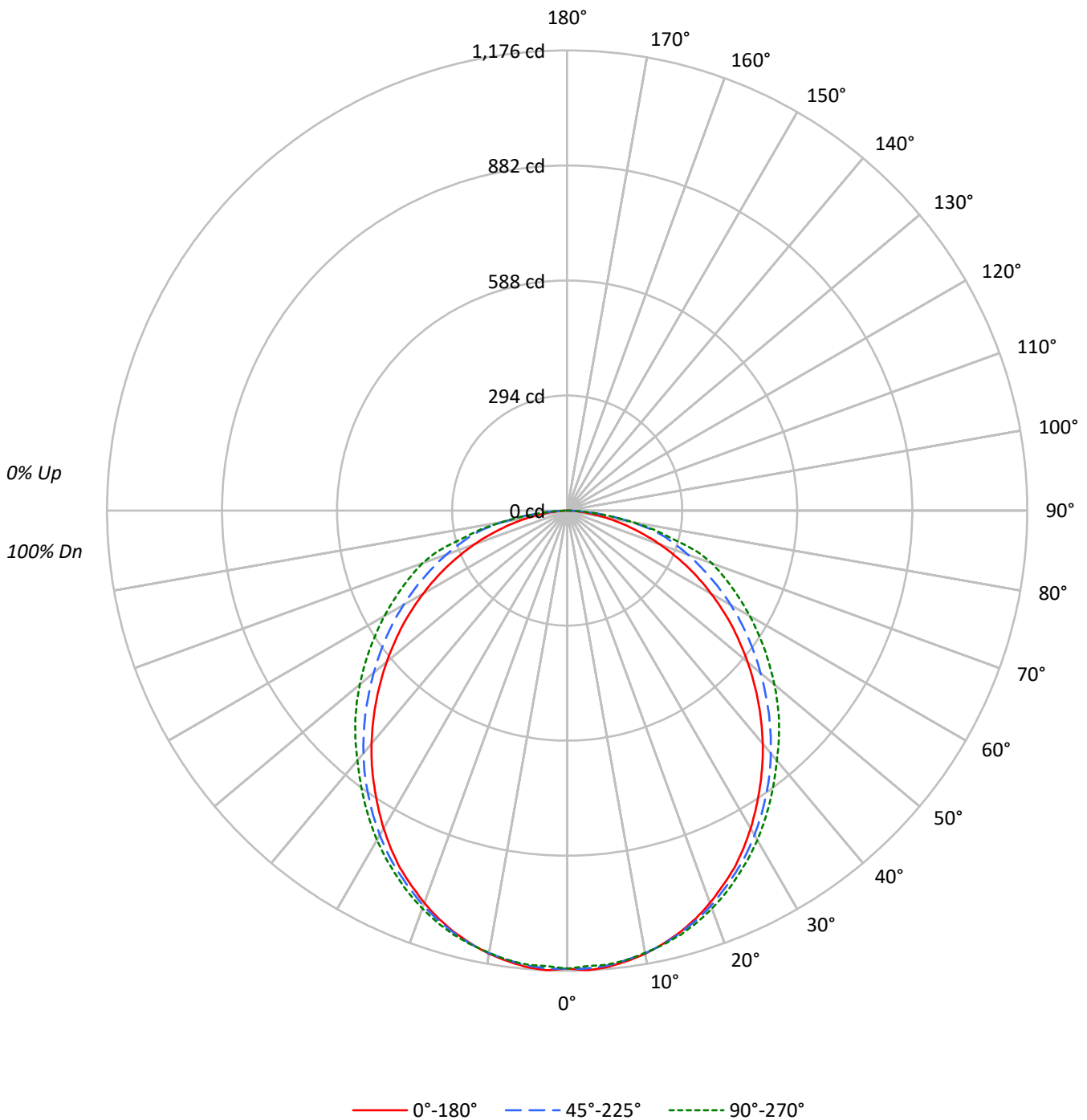
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1575	1575	1575
5°	1582	1576	1573
10°	1571	1570	1568
15°	1554	1557	1563
20°	1528	1539	1550
25°	1498	1514	1530
30°	1457	1487	1511
35°	1412	1456	1486
40°	1366	1423	1464
45°	1314	1386	1457
50°	1261	1351	1448
55°	1206	1322	1443
60°	1143	1300	1450
65°	1075	1284	1479
70°	990	1291	1549
75°	878	1337	1443
80°	734	1267	1300
85°	548	1013	929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	3.4
10°-20°	314.7	9.7
20°-30°	469.0	14.5
30°-40°	552.1	17.1
40°-50°	561.0	17.4
50°-60°	504.4	15.6
60°-70°	398.5	12.3
70°-80°	252.8	7.8
80°-90°	69.8	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°	894.4	27.7
0°-40°	1446.5	44.7
0°-60°	2511.9	77.7
0°-90°	3233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3233.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1172	1162	1167	1165	1165	111
15°	1116	1110	1118	1121	1122	314
25°	1009	1008	1020	1026	1031	464
35°	860	865	886	896	905	538
45°	691	700	728	750	766	533
55°	514	527	564	600	615	459
65°	338	355	403	448	465	335
75°	169	198	257	280	278	180
85°	36	61	66	60	60	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1170.4	1170.4	1170.4	1170.4	1170.4
2.5°	1175.8	1167.2	1171.5	1169.3	1165.0
5°	1171.5	1161.8	1167.2	1165.0	1165.0
7.5°	1161.8	1154.3	1158.6	1157.5	1158.6
10°	1150.0	1142.4	1148.9	1148.9	1147.8
12.5°	1133.8	1127.4	1134.9	1134.9	1136.0
15°	1115.5	1110.2	1117.7	1120.9	1122.0
17.5°	1093.0	1087.6	1097.3	1100.5	1103.7
20°	1067.1	1065.0	1074.7	1077.9	1082.2
22.5°	1038.1	1038.1	1047.8	1052.1	1058.5
25°	1009.0	1008.0	1019.8	1026.3	1030.6
27.5°	974.6	975.7	990.8	997.2	1002.6
30°	938.0	940.2	957.4	964.9	972.5
32.5°	899.3	903.6	923.0	931.6	939.1
35°	859.5	864.9	886.4	896.1	904.7
37.5°	819.7	827.2	849.8	859.5	869.2
40°	777.8	784.2	810.0	821.9	833.7
42.5°	734.7	743.3	769.2	786.4	800.4
45°	690.6	700.3	728.3	749.8	765.9
47.5°	646.5	659.4	686.3	715.4	729.4
50°	602.4	615.3	645.4	677.7	691.7
52.5°	557.2	570.1	604.6	637.9	653.0
55°	514.2	527.1	563.7	600.3	615.3
57.5°	469.0	483.0	523.9	561.5	576.6
60°	424.9	438.9	483.0	522.8	538.9
62.5°	381.9	396.9	443.2	485.2	501.3
65°	337.8	355.0	403.4	447.5	464.7
67.5°	294.8	314.1	364.7	410.9	429.2
70°	251.7	274.3	328.1	375.4	393.7
72.5°	209.8	234.5	291.5	338.9	348.5
75°	168.9	197.9	257.1	279.7	277.5
77.5°	130.2	162.4	218.4	222.7	229.1
80°	94.7	130.2	163.5	172.1	167.8
82.5°	62.4	97.9	117.3	113.0	111.9
85°	35.5	61.3	65.6	60.2	60.2
87.5°	15.1	24.7	21.5	16.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)