

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: P261219

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261219
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3225.0 lumens
Efficiency: N/A
Efficacy: 143.9 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

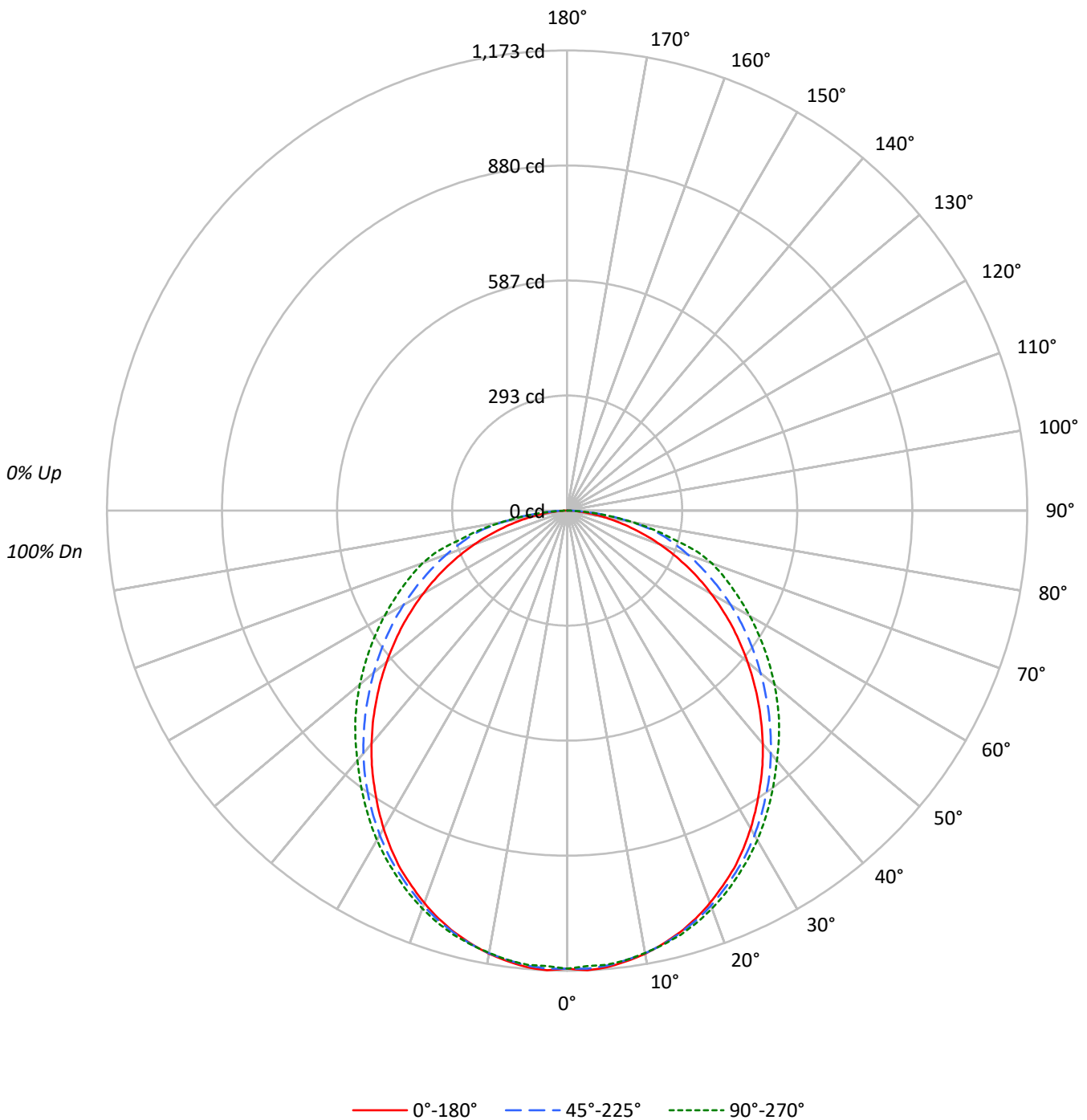
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1571	1571	1571
5°	1578	1573	1570
10°	1567	1566	1564
15°	1550	1553	1559
20°	1524	1535	1546
25°	1494	1510	1526
30°	1454	1484	1507
35°	1408	1452	1482
40°	1363	1419	1461
45°	1311	1382	1454
50°	1258	1348	1444
55°	1203	1319	1440
60°	1141	1297	1447
65°	1073	1281	1476
70°	988	1288	1545
75°	876	1333	1439
80°	731	1264	1297
85°	546	1011	928



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	3.4
10°-20°	313.9	9.7
20°-30°	467.8	14.5
30°-40°	550.7	17.1
40°-50°	559.6	17.4
50°-60°	503.2	15.6
60°-70°	397.5	12.3
70°-80°	252.2	7.8
80°-90°	69.6	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°	892.2	27.7
0°-40°	1442.9	44.7
0°-60°	2505.7	77.7
0°-90°	3225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3225.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1169	1159	1164	1162	1162	111
15°	1113	1107	1115	1118	1119	313
25°	1006	1006	1017	1024	1028	463
35°	857	863	884	894	902	536
45°	689	699	726	748	764	532
55°	513	526	562	599	614	458
65°	337	354	402	446	464	334
75°	168	197	256	279	277	179
85°	35	61	66	60	60	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1167.5	1167.5	1167.5	1167.5	1167.5
2.5°	1172.9	1164.3	1168.6	1166.4	1162.1
5°	1168.6	1158.9	1164.3	1162.1	1162.1
7.5°	1158.9	1151.4	1155.7	1154.6	1155.7
10°	1147.1	1139.6	1146.0	1146.0	1145.0
12.5°	1131.0	1124.6	1132.1	1132.1	1133.2
15°	1112.8	1107.4	1114.9	1118.1	1119.2
17.5°	1090.2	1084.9	1094.5	1097.8	1101.0
20°	1064.5	1062.3	1072.0	1075.2	1079.5
22.5°	1035.5	1035.5	1045.2	1049.5	1055.9
25°	1006.5	1005.5	1017.3	1023.7	1028.0
27.5°	972.2	973.3	988.3	994.7	1000.1
30°	935.7	937.9	955.0	962.6	970.1
32.5°	897.1	901.4	920.7	929.3	936.8
35°	857.4	862.8	884.2	893.9	902.5
37.5°	817.7	825.2	847.7	857.4	867.0
40°	775.8	782.3	808.0	819.8	831.6
42.5°	732.9	741.5	767.3	784.4	798.4
45°	688.9	698.6	726.5	747.9	764.0
47.5°	644.9	657.8	684.6	713.6	727.5
50°	600.9	613.8	643.8	676.0	690.0
52.5°	555.9	568.7	603.1	636.3	651.4
55°	512.9	525.8	562.3	598.8	613.8
57.5°	467.9	481.8	522.6	560.1	575.2
60°	423.9	437.8	481.8	521.5	537.6
62.5°	380.9	396.0	442.1	484.0	500.1
65°	336.9	354.1	402.4	446.4	463.6
67.5°	294.0	313.3	363.8	409.9	428.2
70°	251.1	273.6	327.3	374.5	392.7
72.5°	209.3	233.9	290.8	338.0	347.7
75°	168.5	197.4	256.5	279.0	276.9
77.5°	129.8	162.0	217.8	222.1	228.6
80°	94.4	129.8	163.1	171.7	167.4
82.5°	62.2	97.7	117.0	112.7	111.6
85°	35.4	61.2	65.5	60.1	60.1
87.5°	15.0	24.7	21.5	16.1	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)