

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: P261125

Luminaire Tested: **24CZ-LD5-30-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261125
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-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3125.0 lumens
Efficiency: N/A
Efficacy: 157.8 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

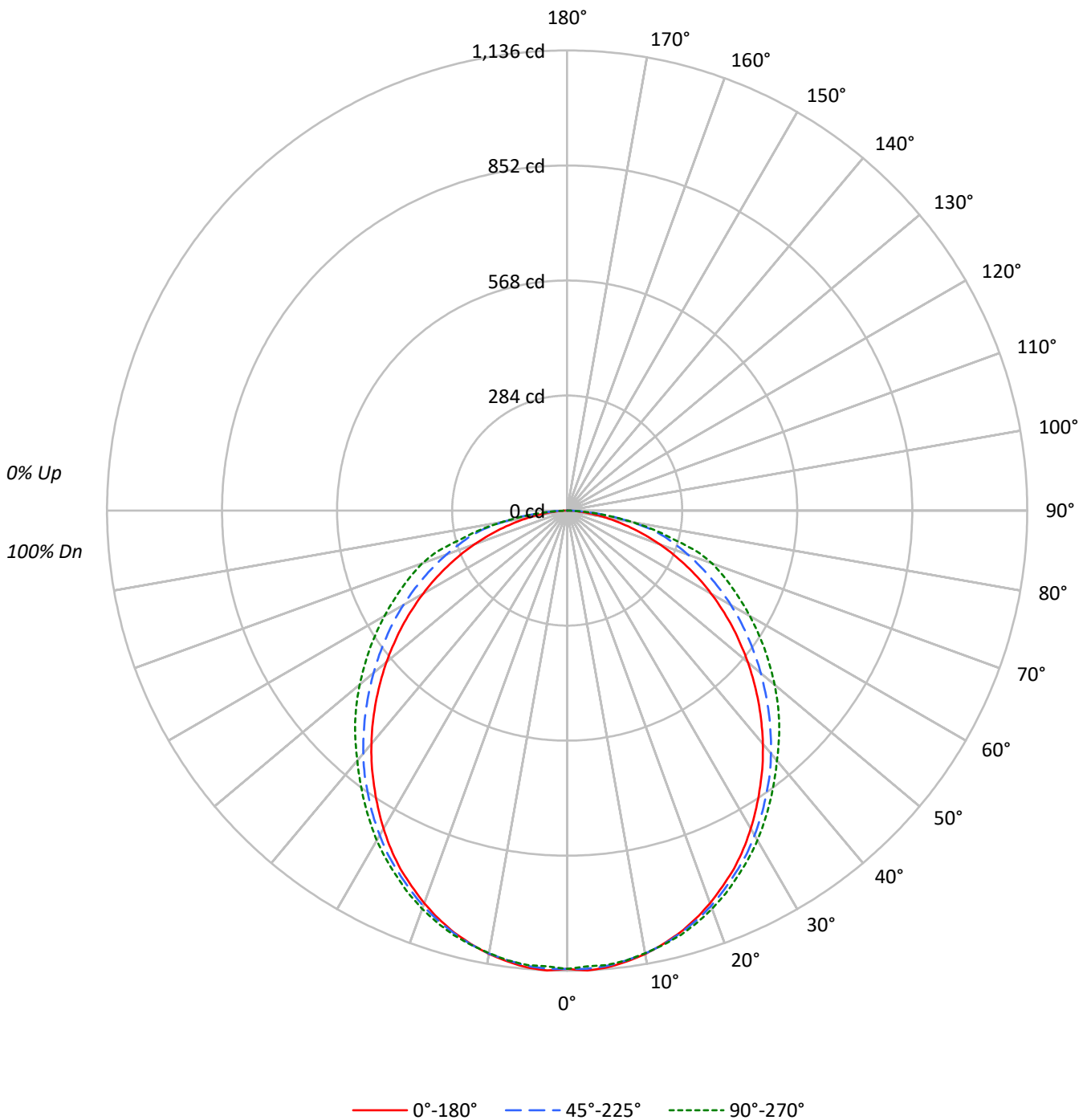
Input Watts (W): 19.809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1522	1522	1522
5°	1529	1524	1521
10°	1519	1517	1516
15°	1502	1505	1511
20°	1477	1487	1498
25°	1448	1463	1479
30°	1409	1438	1460
35°	1365	1407	1436
40°	1320	1375	1415
45°	1270	1339	1409
50°	1219	1306	1400
55°	1166	1278	1395
60°	1105	1256	1402
65°	1039	1241	1430
70°	957	1247	1497
75°	848	1292	1395
80°	709	1225	1257
85°	530	979	898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	3.4
10°-20°	304.2	9.7
20°-30°	453.3	14.5
30°-40°	533.6	17.1
40°-50°	542.3	17.4
50°-60°	487.6	15.6
60°-70°	385.2	12.3
70°-80°	244.4	7.8
80°-90°	67.4	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°	864.5	27.7
0°-40°	1398.1	44.7
0°-60°	2428.0	77.7
0°-90°	3125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1131	1131	1131	1131	1131	
5°	1132	1123	1128	1126	1126	107
15°	1078	1073	1080	1084	1084	304
25°	975	974	986	992	996	448
35°	831	836	857	866	874	520
45°	668	677	704	725	740	515
55°	497	510	545	580	595	444
65°	326	343	390	433	449	323
75°	163	191	248	270	268	174
85°	34	59	63	58	58	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1131.3	1131.3	1131.3	1131.3	1131.3
2.5°	1136.5	1128.2	1132.3	1130.3	1126.1
5°	1132.3	1123.0	1128.2	1126.1	1126.1
7.5°	1123.0	1115.7	1119.9	1118.8	1119.9
10°	1111.6	1104.3	1110.5	1110.5	1109.5
12.5°	1096.0	1089.7	1097.0	1097.0	1098.0
15°	1078.3	1073.1	1080.4	1083.5	1084.5
17.5°	1056.4	1051.2	1060.6	1063.7	1066.8
20°	1031.5	1029.4	1038.8	1041.9	1046.0
22.5°	1003.4	1003.4	1012.8	1016.9	1023.2
25°	975.3	974.3	985.7	992.0	996.1
27.5°	942.1	943.1	957.7	963.9	969.1
30°	906.7	908.8	925.4	932.7	940.0
32.5°	869.3	873.4	892.2	900.5	907.7
35°	830.8	836.0	856.8	866.2	874.5
37.5°	792.3	799.6	821.4	830.8	840.2
40°	751.8	758.0	783.0	794.4	805.8
42.5°	710.2	718.5	743.5	760.1	773.6
45°	667.6	676.9	703.9	724.7	740.3
47.5°	624.9	637.4	663.4	691.5	705.0
50°	582.3	594.8	623.9	655.1	668.6
52.5°	538.6	551.1	584.4	616.6	631.2
55°	497.0	509.5	544.9	580.2	594.8
57.5°	453.4	466.9	506.4	542.8	557.3
60°	410.7	424.2	466.9	505.3	520.9
62.5°	369.1	383.7	428.4	469.0	484.5
65°	326.5	343.1	389.9	432.6	449.2
67.5°	284.9	303.6	352.5	397.2	414.9
70°	243.3	265.2	317.1	362.9	380.6
72.5°	202.8	226.7	281.8	327.5	336.9
75°	163.2	191.3	248.5	270.3	268.3
77.5°	125.8	157.0	211.1	215.2	221.5
80°	91.5	125.8	158.1	166.4	162.2
82.5°	60.3	94.6	113.3	109.2	108.1
85°	34.3	59.3	63.4	58.2	58.2
87.5°	14.6	23.9	20.8	15.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)