

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: P261361

Luminaire Tested: **24CZ-LD5-35SE-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261361
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-LD5-35SE-S-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3354.0 lumens
Efficiency: N/A
Efficacy: 125.7 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

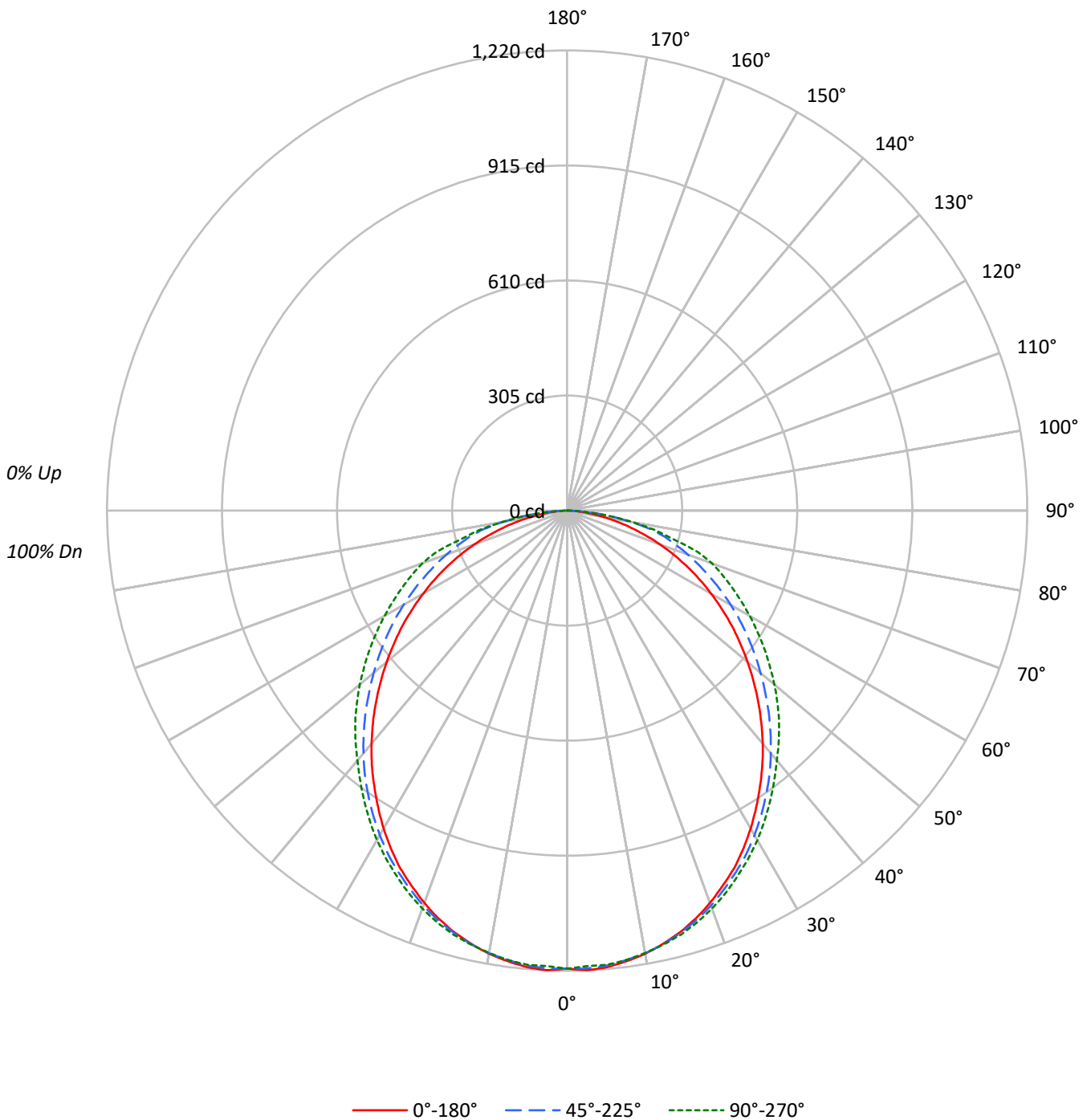
Input Watts (W): 26.691
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1634	1634	1634
5°	1641	1635	1632
10°	1630	1628	1627
15°	1612	1615	1621
20°	1585	1596	1608
25°	1554	1571	1587
30°	1512	1543	1567
35°	1465	1510	1542
40°	1417	1476	1519
45°	1363	1438	1512
50°	1308	1402	1502
55°	1251	1372	1498
60°	1186	1348	1505
65°	1116	1332	1535
70°	1027	1339	1607
75°	911	1386	1497
80°	761	1314	1349
85°	568	1051	965



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	3.4
10°-20°	326.5	9.7
20°-30°	486.6	14.5
30°-40°	572.8	17.1
40°-50°	582.0	17.4
50°-60°	523.3	15.6
60°-70°	413.4	12.3
70°-80°	262.3	7.8
80°-90°	72.4	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°	927.8	27.7
0°-40°	1500.6	44.7
0°-60°	2605.9	77.7
0°-90°	3354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1214	1214	1214	1214	1214	
5°	1215	1205	1211	1209	1209	115
15°	1157	1152	1160	1163	1164	326
25°	1047	1046	1058	1065	1069	481
35°	892	897	920	930	939	558
45°	716	726	756	778	795	553
55°	533	547	585	623	638	476
65°	350	368	418	464	482	347
75°	175	205	267	290	288	186
85°	37	64	68	62	62	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1214.2	1214.2	1214.2	1214.2	1214.2
2.5°	1219.8	1210.9	1215.3	1213.1	1208.6
5°	1215.3	1205.3	1210.9	1208.6	1208.6
7.5°	1205.3	1197.5	1201.9	1200.8	1201.9
10°	1193.0	1185.2	1191.9	1191.9	1190.8
12.5°	1176.3	1169.6	1177.4	1177.4	1178.5
15°	1157.3	1151.7	1159.5	1162.9	1164.0
17.5°	1133.9	1128.3	1138.3	1141.7	1145.0
20°	1107.1	1104.8	1114.9	1118.2	1122.7
22.5°	1076.9	1076.9	1087.0	1091.4	1098.1
25°	1046.8	1045.7	1058.0	1064.7	1069.1
27.5°	1011.1	1012.2	1027.8	1034.5	1040.1
30°	973.2	975.4	993.2	1001.1	1008.9
32.5°	933.0	937.4	957.5	966.5	974.3
35°	891.7	897.3	919.6	929.6	938.6
37.5°	850.4	858.2	881.6	891.7	901.7
40°	806.9	813.6	840.3	852.6	864.9
42.5°	762.2	771.2	797.9	815.8	830.3
45°	716.5	726.5	755.5	777.9	794.6
47.5°	670.7	684.1	712.0	742.1	756.6
50°	625.0	638.4	669.6	703.1	717.6
52.5°	578.1	591.5	627.2	661.8	677.4
55°	533.4	546.8	584.8	622.7	638.4
57.5°	486.6	501.1	543.5	582.6	598.2
60°	440.8	455.3	501.1	542.4	559.1
62.5°	396.2	411.8	459.8	503.3	520.1
65°	350.4	368.3	418.5	464.3	482.1
67.5°	305.8	325.9	378.3	426.3	445.3
70°	261.1	284.6	340.4	389.5	408.5
72.5°	217.6	243.3	302.4	351.5	361.6
75°	175.2	205.3	266.7	290.2	287.9
77.5°	135.0	168.5	226.5	231.0	237.7
80°	98.2	135.0	169.6	178.6	174.1
82.5°	64.7	101.6	121.6	117.2	116.1
85°	36.8	63.6	68.1	62.5	62.5
87.5°	15.6	25.7	22.3	16.7	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)