

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: P260954

Luminaire Tested: **24CZ-LD5-45SE-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-45SE-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3551.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

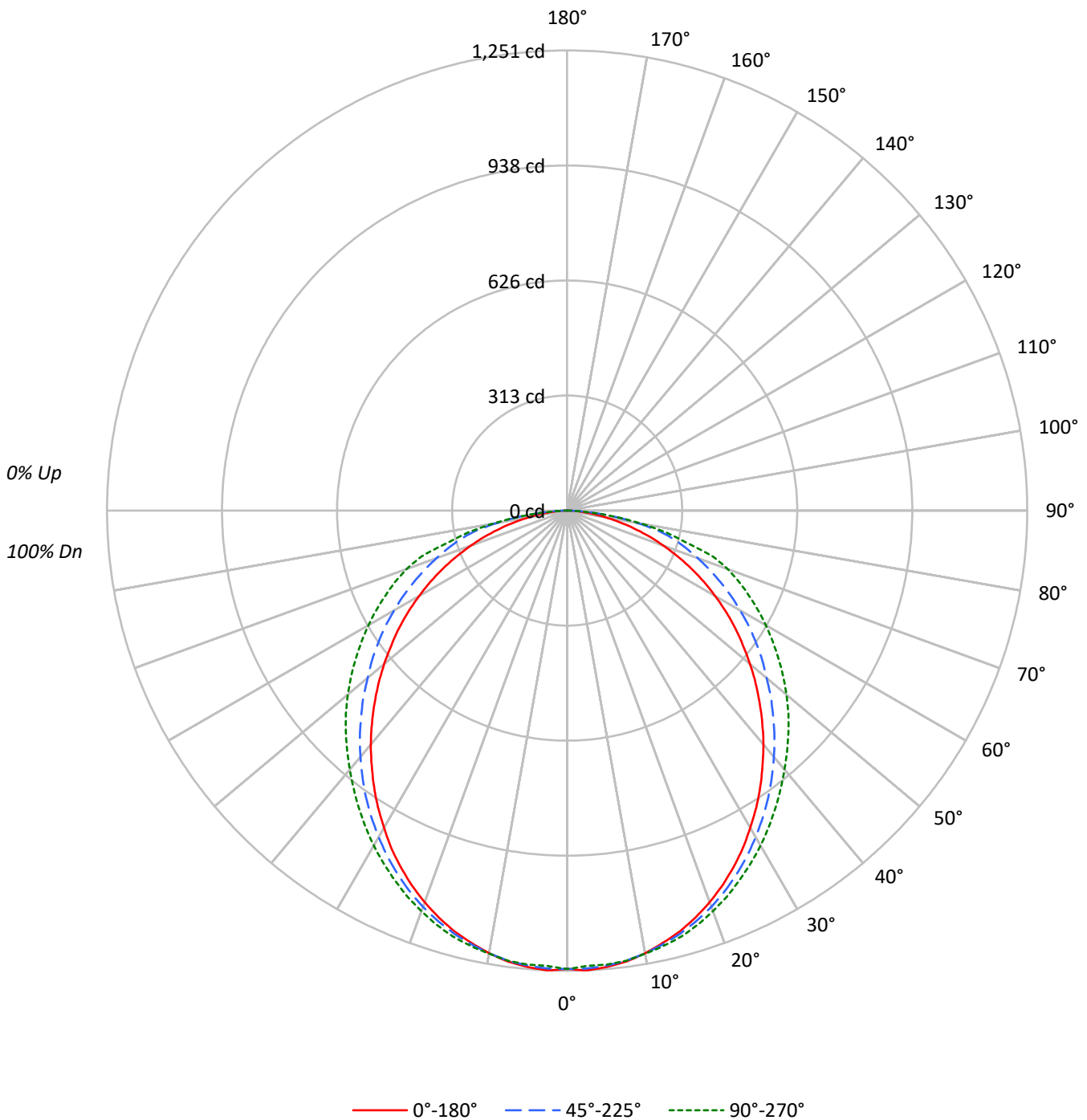
Input Watts (W): 34.875
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1677	1677	1677
5°	1682	1677	1673
10°	1669	1669	1671
15°	1650	1658	1670
20°	1622	1642	1659
25°	1588	1619	1646
30°	1547	1592	1634
35°	1504	1566	1622
40°	1459	1535	1614
45°	1409	1506	1619
50°	1359	1481	1629
55°	1309	1472	1646
60°	1250	1463	1678
65°	1184	1463	1734
70°	1095	1487	1827
75°	980	1555	1738
80°	820	1488	1592
85°	619	1145	1088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	3.3
10°-20°	335.2	9.4
20°-30°	501.1	14.1
30°-40°	594.4	16.7
40°-50°	611.8	17.2
50°-60°	561.3	15.8
60°-70°	453.8	12.8
70°-80°	294.5	8.3
80°-90°	81.2	2.3
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°	954.0	26.9
0°-40°	1548.4	43.6
0°-60°	2721.5	76.6
0°-90°	3551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1246	1246	1246	1246	1246	
5°	1245	1236	1241	1240	1239	118
15°	1184	1179	1190	1195	1199	334
25°	1070	1071	1091	1100	1109	492
35°	916	923	953	974	987	573
45°	740	753	792	829	851	571
55°	558	575	627	678	702	499
65°	372	394	460	520	545	368
75°	188	224	299	334	334	200
85°	40	68	74	72	70	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1246.2	1246.2	1246.2	1246.2	1246.2
2.5°	1251.1	1241.4	1246.2	1245.0	1238.9
5°	1245.0	1236.5	1241.4	1240.1	1238.9
7.5°	1236.5	1228.0	1234.1	1232.8	1234.1
10°	1221.9	1214.6	1221.9	1223.1	1223.1
12.5°	1203.7	1197.6	1207.3	1209.7	1212.2
15°	1184.2	1179.3	1190.3	1195.2	1198.8
17.5°	1159.9	1156.2	1169.6	1175.7	1180.6
20°	1133.1	1131.9	1146.5	1152.6	1158.7
22.5°	1102.7	1102.7	1119.8	1127.1	1135.6
25°	1069.9	1071.1	1090.6	1100.3	1108.8
27.5°	1034.7	1035.9	1059.0	1071.1	1080.9
30°	995.8	1000.6	1024.9	1040.7	1051.7
32.5°	956.9	962.9	989.7	1007.9	1020.1
35°	915.5	922.8	953.2	973.9	987.2
37.5°	873.0	881.5	914.3	937.4	953.2
40°	830.4	840.1	874.2	900.9	919.2
42.5°	785.4	796.4	834.1	865.7	885.1
45°	740.4	752.6	791.5	829.2	851.1
47.5°	695.4	710.0	751.4	792.7	815.8
50°	649.2	663.8	707.6	755.0	778.1
52.5°	603.0	620.1	668.7	717.3	740.4
55°	558.1	575.1	627.4	678.4	701.5
57.5°	511.9	528.9	586.0	639.5	662.6
60°	464.4	483.9	543.5	598.2	623.7
62.5°	418.2	438.9	502.1	560.5	584.8
65°	372.0	393.9	459.6	520.4	544.7
67.5°	324.6	350.2	418.2	480.2	505.8
70°	278.4	306.4	378.1	440.1	464.4
72.5°	233.4	263.8	338.0	401.2	415.8
75°	188.5	223.7	299.1	334.4	334.4
77.5°	145.9	184.8	255.3	268.7	276.0
80°	105.8	148.3	192.1	207.9	205.5
82.5°	70.5	113.1	137.4	137.4	133.7
85°	40.1	68.1	74.2	71.7	70.5
87.5°	17.0	25.5	23.1	18.2	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)