

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: P260864

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260864
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-LD5-45-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3515.0 lumens
Efficiency: N/A
Efficacy: 112.2 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

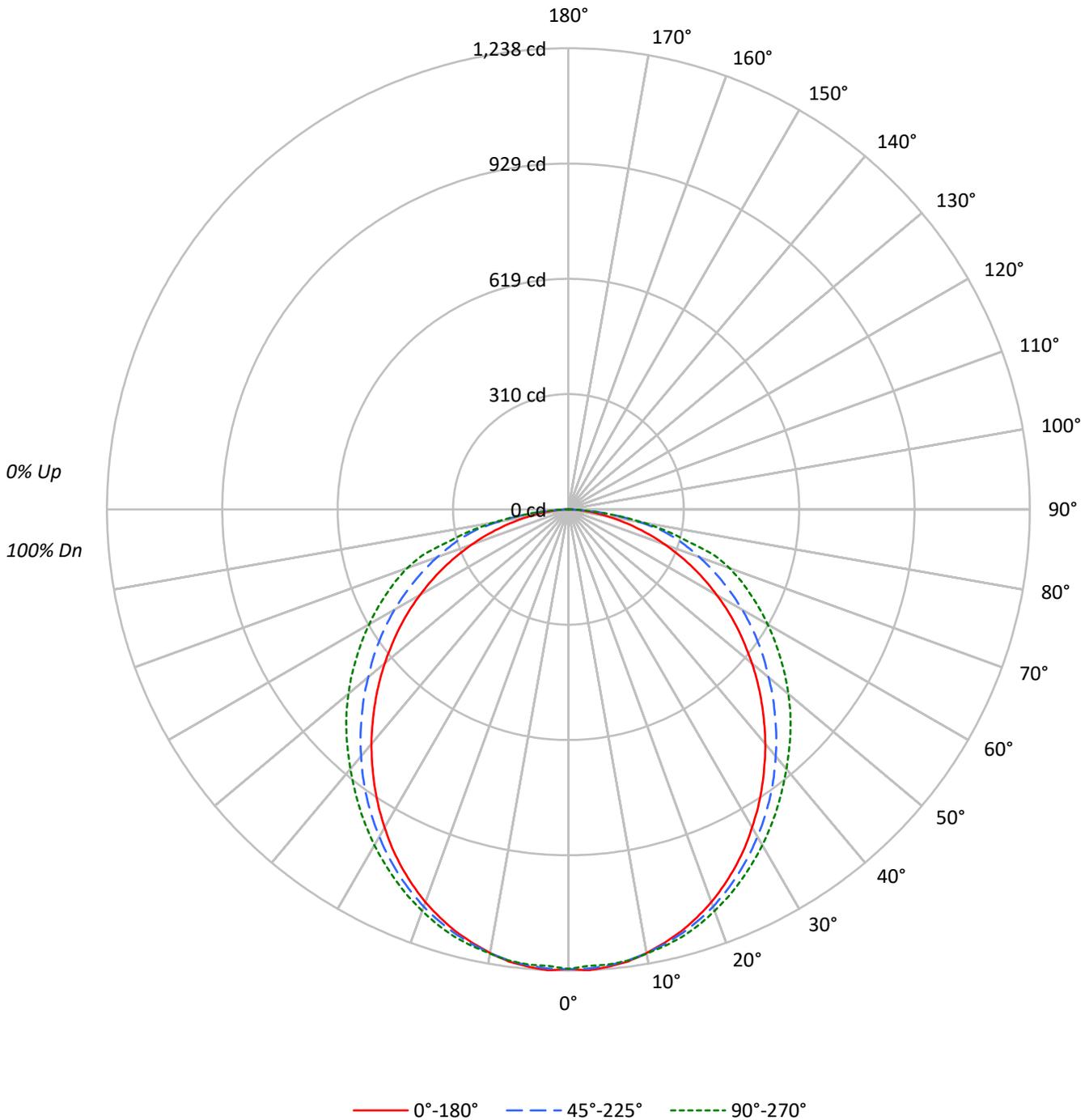
Input Watts (W): 31.341
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1660	1660	1660
5°	1665	1660	1656
10°	1652	1652	1654
15°	1633	1641	1653
20°	1606	1625	1642
25°	1572	1603	1629
30°	1531	1576	1617
35°	1488	1550	1605
40°	1444	1520	1598
45°	1395	1491	1603
50°	1345	1466	1612
55°	1296	1457	1629
60°	1237	1448	1661
65°	1173	1448	1717
70°	1084	1472	1808
75°	970	1539	1721
80°	811	1474	1576
85°	613	1133	1078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	3.3
10°-20°	331.8	9.4
20°-30°	496.0	14.1
30°-40°	588.4	16.7
40°-50°	605.6	17.2
50°-60°	555.6	15.8
60°-70°	449.2	12.8
70°-80°	291.5	8.3
80°-90°	80.4	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°	944.3	26.9
0°-40°	1532.7	43.6
0°-60°	2693.9	76.6
0°-90°	3515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3515.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1232	1224	1229	1228	1226	117
15°	1172	1167	1178	1183	1187	330
25°	1059	1060	1080	1089	1098	487
35°	906	914	944	964	977	567
45°	733	745	784	821	842	566
55°	552	569	621	672	694	493
65°	368	390	455	515	539	364
75°	186	221	296	331	331	198
85°	40	67	73	71	70	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1233.6	1233.6	1233.6	1233.6	1233.6
2.5°	1238.4	1228.8	1233.6	1232.4	1226.4
5°	1232.4	1224.0	1228.8	1227.6	1226.4
7.5°	1224.0	1215.5	1221.5	1220.3	1221.5
10°	1209.5	1202.3	1209.5	1210.7	1210.7
12.5°	1191.5	1185.4	1195.1	1197.5	1199.9
15°	1172.2	1167.4	1178.2	1183.0	1186.6
17.5°	1148.1	1144.5	1157.8	1163.8	1168.6
20°	1121.7	1120.5	1134.9	1140.9	1146.9
22.5°	1091.6	1091.6	1108.4	1115.6	1124.1
25°	1059.1	1060.3	1079.5	1089.2	1097.6
27.5°	1024.2	1025.4	1048.2	1060.3	1069.9
30°	985.7	990.5	1014.5	1030.2	1041.0
32.5°	947.2	953.2	979.6	997.7	1009.7
35°	906.2	913.5	943.5	964.0	977.2
37.5°	864.1	872.5	905.0	927.9	943.5
40°	822.0	831.6	865.3	891.8	909.8
42.5°	777.5	788.3	825.6	856.9	876.1
45°	732.9	745.0	783.5	820.8	842.4
47.5°	688.4	702.8	743.8	784.7	807.5
50°	642.7	657.1	700.4	747.4	770.2
52.5°	596.9	613.8	661.9	710.1	732.9
55°	552.4	569.3	621.0	671.6	694.4
57.5°	506.7	523.5	580.1	633.0	655.9
60°	459.7	479.0	538.0	592.1	617.4
62.5°	414.0	434.5	497.0	554.8	578.9
65°	368.3	389.9	454.9	515.1	539.2
67.5°	321.3	346.6	414.0	475.4	500.7
70°	275.6	303.3	374.3	435.7	459.7
72.5°	231.1	261.2	334.6	397.2	411.6
75°	186.5	221.4	296.1	331.0	331.0
77.5°	144.4	182.9	252.7	266.0	273.2
80°	104.7	146.8	190.2	205.8	203.4
82.5°	69.8	111.9	136.0	136.0	132.4
85°	39.7	67.4	73.4	71.0	69.8
87.5°	16.8	25.3	22.9	18.1	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)