

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: P260714

Luminaire Tested: **24CZ-LD5-35-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260714
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-LD5-35-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3513.0 lumens
Efficiency: N/A
Efficacy: 143.6 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

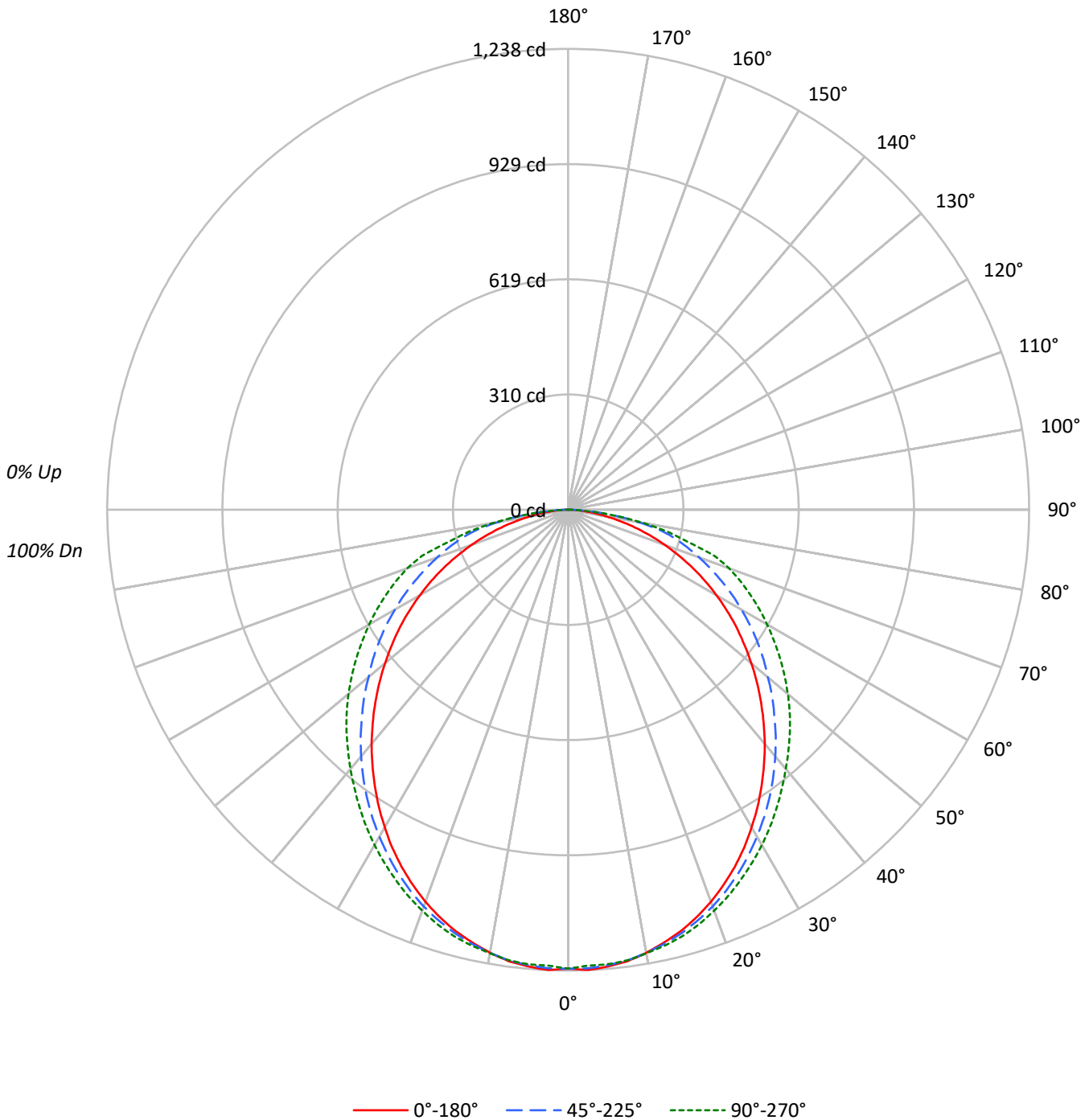
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1659	1659	1659
5°	1664	1659	1655
10°	1652	1652	1653
15°	1632	1640	1652
20°	1605	1624	1641
25°	1571	1602	1629
30°	1530	1575	1616
35°	1488	1549	1604
40°	1443	1519	1597
45°	1394	1490	1602
50°	1344	1465	1611
55°	1295	1456	1628
60°	1237	1447	1660
65°	1172	1448	1716
70°	1083	1472	1808
75°	969	1538	1720
80°	810	1472	1575
85°	613	1133	1078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	3.3
10°-20°	331.6	9.4
20°-30°	495.7	14.1
30°-40°	588.1	16.7
40°-50°	605.2	17.2
50°-60°	555.2	15.8
60°-70°	449.0	12.8
70°-80°	291.4	8.3
80°-90°	80.3	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°	943.8	26.9
0°-40°	1531.8	43.6
0°-60°	2692.3	76.6
0°-90°	3513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3513.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1233	1233	1233	1233	1233	
5°	1232	1223	1228	1227	1226	117
15°	1172	1167	1178	1182	1186	330
25°	1058	1060	1079	1088	1097	487
35°	906	913	943	964	977	566
45°	732	744	783	820	842	565
55°	552	569	621	671	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°	1232.9	1232.9	1232.9	1232.9	1232.9
2.5°	1237.7	1228.1	1232.9	1231.7	1225.7
5°	1231.7	1223.3	1228.1	1226.9	1225.7
7.5°	1223.3	1214.8	1220.9	1219.6	1220.9
10°	1208.8	1201.6	1208.8	1210.0	1210.0
12.5°	1190.8	1184.8	1194.4	1196.8	1199.2
15°	1171.5	1166.7	1177.6	1182.4	1186.0
17.5°	1147.5	1143.9	1157.1	1163.1	1167.9
20°	1121.0	1119.8	1134.2	1140.3	1146.3
22.5°	1090.9	1090.9	1107.8	1115.0	1123.4
25°	1058.5	1059.7	1078.9	1088.5	1097.0
27.5°	1023.6	1024.8	1047.6	1059.7	1069.3
30°	985.1	989.9	1014.0	1029.6	1040.4
32.5°	946.6	952.6	979.1	997.1	1009.2
35°	905.7	912.9	943.0	963.5	976.7
37.5°	863.6	872.0	904.5	927.4	943.0
40°	821.5	831.1	864.8	891.3	909.3
42.5°	777.0	787.8	825.1	856.4	875.6
45°	732.5	744.5	783.0	820.3	842.0
47.5°	688.0	702.4	743.3	784.2	807.1
50°	642.3	656.7	700.0	746.9	769.8
52.5°	596.6	613.4	661.5	709.7	732.5
55°	552.1	568.9	620.7	671.2	694.0
57.5°	506.4	523.2	579.8	632.7	655.5
60°	459.5	478.7	537.7	591.8	617.0
62.5°	413.8	434.2	496.8	554.5	578.6
65°	368.1	389.7	454.7	514.8	538.9
67.5°	321.2	346.4	413.8	475.1	500.4
70°	275.4	303.1	374.1	435.4	459.5
72.5°	230.9	261.0	334.4	396.9	411.4
75°	186.4	221.3	295.9	330.8	330.8
77.5°	144.3	182.8	252.6	265.8	273.0
80°	104.6	146.7	190.0	205.7	203.3
82.5°	69.8	111.9	135.9	135.9	132.3
85°	39.7	67.4	73.4	71.0	69.8
87.5°	16.8	25.3	22.9	18.0	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)