

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: P260803

Luminaire Tested: **24CZ-LD5-35SE-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260803
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-LD5-35SE-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3474.0 lumens
Efficiency: N/A
Efficacy: 132.9 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

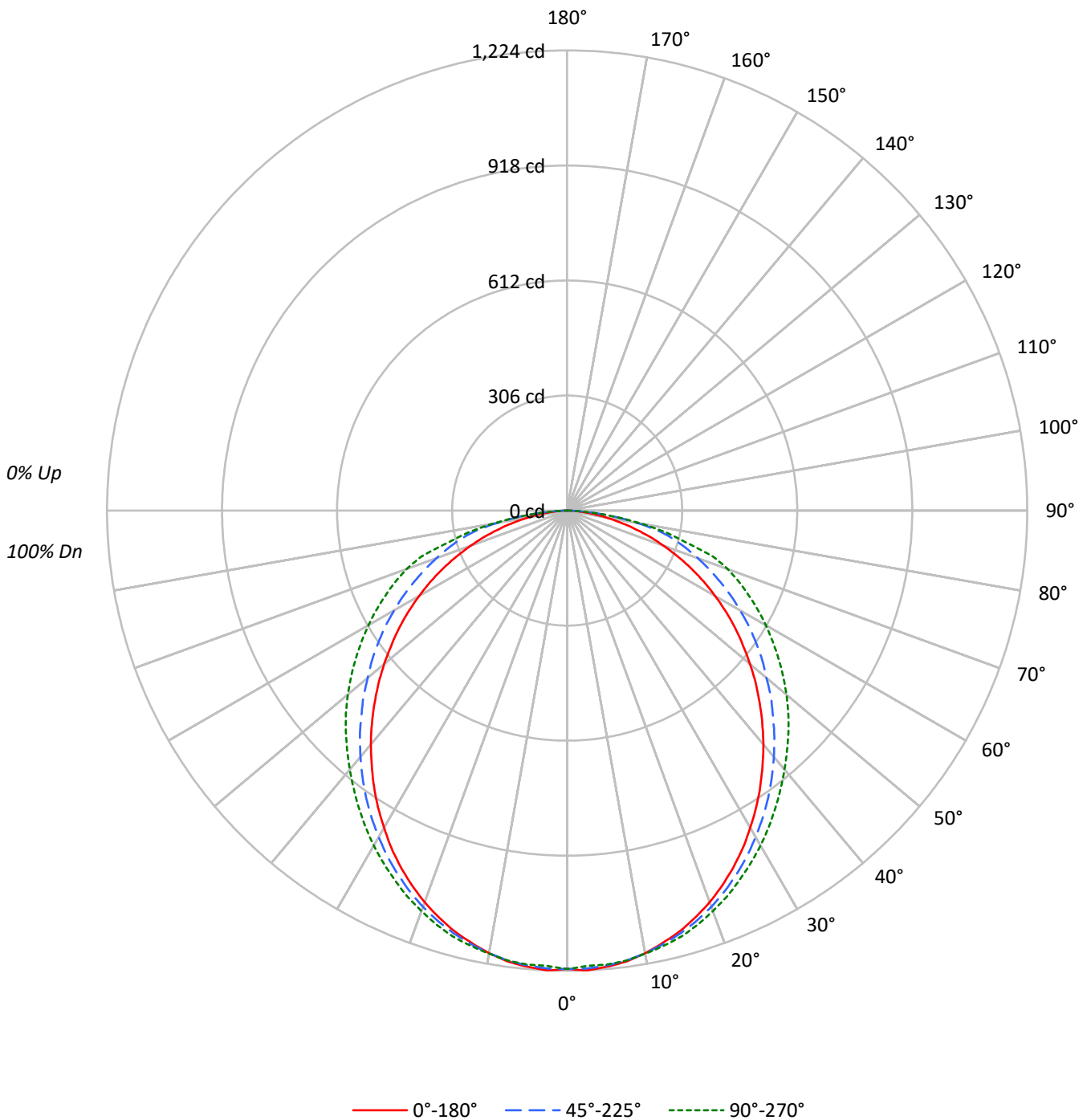
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1640	1640	1640
5°	1645	1640	1637
10°	1633	1633	1635
15°	1614	1622	1634
20°	1587	1606	1623
25°	1554	1584	1610
30°	1514	1558	1599
35°	1471	1532	1586
40°	1427	1502	1579
45°	1378	1473	1584
50°	1330	1449	1594
55°	1281	1440	1610
60°	1223	1431	1642
65°	1159	1431	1697
70°	1072	1455	1788
75°	959	1521	1700
80°	802	1456	1557
85°	607	1121	1065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	3.3
10°-20°	327.9	9.4
20°-30°	490.2	14.1
30°-40°	581.5	16.7
40°-50°	598.5	17.2
50°-60°	549.1	15.8
60°-70°	444.0	12.8
70°-80°	288.1	8.3
80°-90°	79.5	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°	933.3	26.9
0°-40°	1514.8	43.6
0°-60°	2662.5	76.6
0°-90°	3474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1218	1210	1214	1213	1212	116
15°	1158	1154	1164	1169	1173	326
25°	1047	1048	1067	1076	1085	482
35°	896	903	932	953	966	560
45°	724	736	774	811	833	559
55°	546	563	614	664	686	488
65°	364	385	450	509	533	360
75°	184	219	293	327	327	196
85°	39	67	73	70	69	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1219.2	1219.2	1219.2	1219.2	1219.2
2.5°	1224.0	1214.4	1219.2	1218.0	1212.1
5°	1218.0	1209.7	1214.4	1213.2	1212.1
7.5°	1209.7	1201.4	1207.3	1206.1	1207.3
10°	1195.4	1188.3	1195.4	1196.6	1196.6
12.5°	1177.6	1171.6	1181.1	1183.5	1185.9
15°	1158.5	1153.8	1164.5	1169.2	1172.8
17.5°	1134.7	1131.2	1144.3	1150.2	1155.0
20°	1108.6	1107.4	1121.7	1127.6	1133.6
22.5°	1078.8	1078.8	1095.5	1102.6	1111.0
25°	1046.7	1047.9	1066.9	1076.5	1084.8
27.5°	1012.2	1013.4	1036.0	1047.9	1057.4
30°	974.2	978.9	1002.7	1018.2	1028.9
32.5°	936.1	942.0	968.2	986.1	998.0
35°	895.7	902.8	932.5	952.8	965.8
37.5°	854.0	862.4	894.5	917.1	932.5
40°	812.4	821.9	855.2	881.4	899.2
42.5°	768.4	779.1	816.0	846.9	865.9
45°	724.4	736.3	774.3	811.2	832.6
47.5°	680.4	694.6	735.1	775.5	798.1
50°	635.2	649.4	692.3	738.7	761.3
52.5°	590.0	606.6	654.2	701.8	724.4
55°	546.0	562.6	613.8	663.7	686.3
57.5°	500.8	517.4	573.3	625.7	648.3
60°	454.4	473.4	531.7	585.2	610.2
62.5°	409.2	429.4	491.2	548.3	572.1
65°	364.0	385.4	449.6	509.1	532.9
67.5°	317.6	342.6	409.2	469.8	494.8
70°	272.4	299.7	369.9	430.6	454.4
72.5°	228.4	258.1	330.7	392.5	406.8
75°	184.4	218.9	292.6	327.1	327.1
77.5°	142.7	180.8	249.8	262.9	270.0
80°	103.5	145.1	187.9	203.4	201.0
82.5°	69.0	110.6	134.4	134.4	130.8
85°	39.3	66.6	72.6	70.2	69.0
87.5°	16.7	25.0	22.6	17.8	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)