

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: P276367

Luminaire Tested: **24CZ2-35-S-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35-S-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3341.0 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.27 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

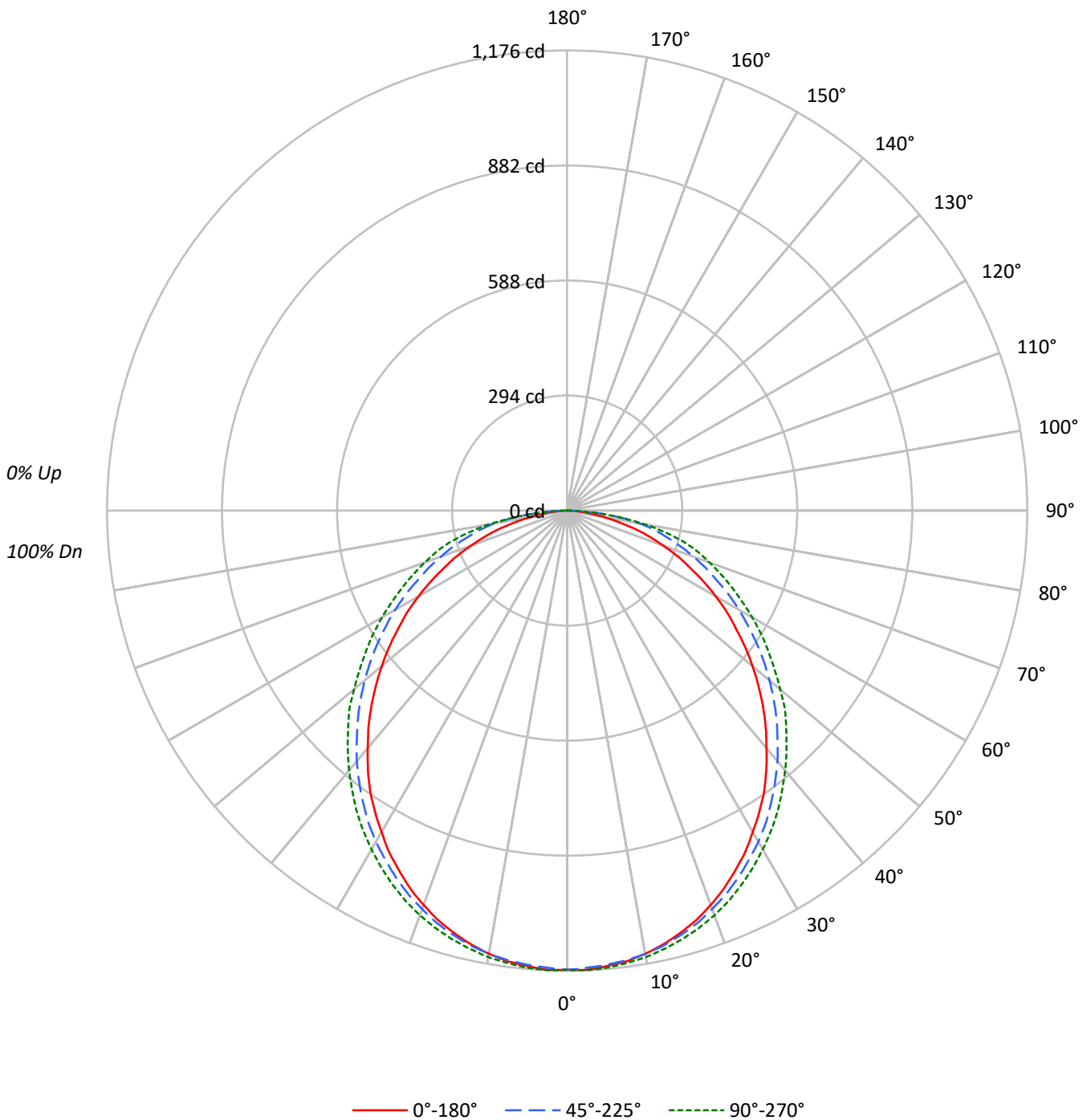
Input Watts (W): 25.98792
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1579	1579	1579
5°	1578	1574	1584
10°	1572	1572	1583
15°	1557	1564	1580
20°	1536	1551	1576
25°	1508	1536	1566
30°	1474	1519	1553
35°	1441	1494	1541
40°	1392	1469	1523
45°	1347	1440	1506
50°	1295	1413	1488
55°	1237	1387	1474
60°	1179	1365	1471
65°	1105	1341	1480
70°	1023	1349	1520
75°	916	1373	1605
80°	740	1455	1571
85°	557	1278	1246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	3.3
10°-20°	317.5	9.5
20°-30°	477.3	14.3
30°-40°	568.5	17.0
40°-50°	581.8	17.4
50°-60°	523.8	15.7
60°-70°	411.4	12.3
70°-80°	267.0	8.0
80°-90°	82.6	2.5
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°	905.9	27.1
0°-40°	1474.4	44.1
0°-60°	2580.1	77.2
0°-90°	3341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3341.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1168	1170	1165	1172	1173	111
15°	1118	1121	1123	1132	1134	315
25°	1016	1024	1035	1052	1055	468
35°	878	888	910	932	938	547
45°	708	725	757	785	792	546
55°	527	551	591	622	628	473
65°	347	374	421	456	465	345
75°	176	210	264	300	309	186
85°	36	67	83	81	81	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1173.7	1173.7	1173.7	1173.7	1173.7
2.5°	1174.8	1174.8	1169.5	1174.8	1175.8
5°	1168.4	1170.5	1165.2	1171.6	1172.7
7.5°	1162.0	1162.0	1158.9	1165.2	1166.3
10°	1150.4	1151.4	1150.4	1157.8	1158.9
12.5°	1135.5	1137.6	1138.7	1146.1	1147.2
15°	1117.5	1120.7	1122.8	1132.3	1134.4
17.5°	1097.3	1100.5	1105.8	1116.4	1118.5
20°	1072.9	1077.1	1083.5	1097.3	1100.5
22.5°	1046.4	1050.6	1061.2	1074.0	1079.3
25°	1015.6	1024.1	1034.7	1051.7	1054.9
27.5°	984.8	992.2	1006.0	1024.1	1028.3
30°	948.7	960.4	977.4	995.4	999.7
32.5°	913.7	925.4	945.6	964.7	970.0
35°	877.6	888.2	909.5	931.8	938.1
37.5°	836.2	850.0	873.4	895.7	902.0
40°	792.7	809.7	836.2	859.6	867.0
42.5°	751.3	769.4	795.9	821.4	829.9
45°	707.8	724.8	756.7	785.3	791.7
47.5°	663.3	682.4	716.3	745.0	755.6
50°	618.7	638.9	674.9	704.7	711.0
52.5°	574.1	595.3	633.6	665.4	668.6
55°	527.4	550.8	591.1	621.9	628.2
57.5°	485.0	505.1	548.7	580.5	587.9
60°	438.3	460.6	507.3	537.0	546.5
62.5°	393.7	417.1	465.9	495.6	504.1
65°	347.0	373.6	421.3	456.3	464.8
67.5°	306.7	332.2	383.1	417.1	425.6
70°	260.0	288.7	342.8	377.8	386.3
72.5°	219.7	249.4	303.5	337.5	350.2
75°	176.2	210.1	264.2	300.3	308.8
77.5°	133.7	173.0	228.2	255.8	255.8
80°	95.5	136.9	187.8	200.6	202.7
82.5°	62.6	102.9	139.0	138.0	138.0
85°	36.1	66.9	82.8	80.7	80.7
87.5°	13.8	27.6	29.7	29.7	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)