

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: P276053

Luminaire Tested: **24CZ2-35HE-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35HE-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3251.4 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

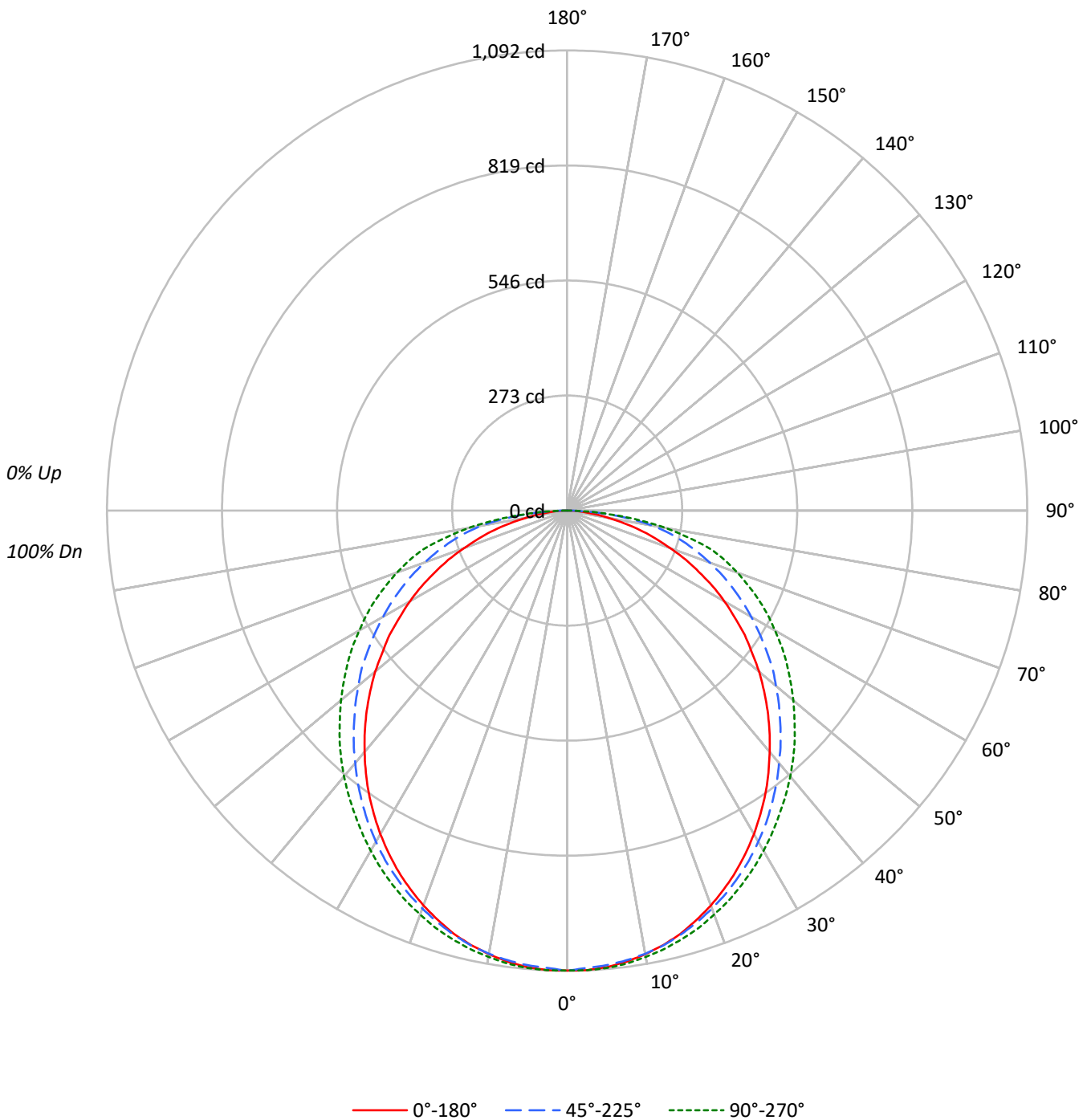
Input Watts (W): 24.273
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1469	1469	1469
5°	1469	1463	1472
10°	1460	1459	1469
15°	1448	1451	1466
20°	1428	1439	1460
25°	1405	1426	1455
30°	1377	1409	1448
35°	1348	1392	1444
40°	1313	1374	1447
45°	1280	1361	1454
50°	1245	1354	1467
55°	1207	1352	1494
60°	1159	1358	1533
65°	1099	1379	1599
70°	1020	1413	1690
75°	931	1484	1834
80°	765	1598	1833
85°	587	1474	1575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	3.2
10°-20°	294.8	9.1
20°-30°	443.6	13.6
30°-40°	531.6	16.3
40°-50°	553.9	17.0
50°-60°	515.4	15.9
60°-70°	424.5	13.1
70°-80°	289.1	8.9
80°-90°	95.5	2.9
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°	841.5	25.9
0°-40°	1373.1	42.2
0°-60°	2442.4	75.1
0°-90°	3251.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3251.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1087	1087	1083	1088	1090	103
15°	1040	1041	1042	1052	1053	293
25°	946	951	960	977	980	436
35°	820	830	848	870	879	513
45°	673	687	715	751	764	519
55°	514	532	576	622	637	458
65°	345	374	433	484	502	343
75°	179	219	285	336	353	189
85°	38	74	96	102	102	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1091.6	1091.6	1091.6	1091.6	1091.6
2.5°	1091.6	1091.6	1086.2	1091.6	1091.6
5°	1087.3	1087.3	1083.0	1088.4	1089.5
7.5°	1079.7	1080.8	1076.5	1083.0	1084.1
10°	1068.9	1069.9	1067.8	1074.3	1075.4
12.5°	1055.8	1056.9	1056.9	1064.5	1065.6
15°	1039.6	1040.6	1041.7	1051.5	1052.6
17.5°	1018.9	1022.2	1024.4	1036.3	1038.5
20°	997.2	1000.5	1004.8	1017.9	1020.0
22.5°	972.3	976.6	984.2	998.3	1001.6
25°	946.2	950.6	960.3	976.6	979.9
27.5°	916.9	923.5	935.4	952.7	957.1
30°	886.6	893.1	907.2	925.6	932.1
32.5°	854.0	862.7	879.0	899.6	906.1
35°	820.4	830.1	847.5	870.3	879.0
37.5°	784.6	795.4	816.0	841.0	851.8
40°	747.7	760.7	782.4	811.7	823.6
42.5°	710.8	722.7	749.8	781.3	794.3
45°	672.8	686.9	715.1	750.9	763.9
47.5°	633.7	647.8	681.5	719.4	731.4
50°	594.7	608.8	646.7	686.9	701.0
52.5°	552.3	570.8	614.2	654.3	668.4
55°	514.4	531.7	576.2	621.8	637.0
57.5°	470.9	491.6	540.4	588.1	604.4
60°	430.8	452.5	504.6	553.4	569.7
62.5°	389.6	413.4	468.8	518.7	537.1
65°	345.1	374.4	433.0	484.0	502.4
67.5°	304.9	335.3	397.2	449.2	465.5
70°	259.3	296.2	359.2	411.3	429.7
72.5°	220.3	257.2	323.4	374.4	392.8
75°	179.0	219.2	285.4	336.4	352.7
77.5°	137.8	182.3	248.5	287.6	293.0
80°	98.7	145.4	206.2	229.0	236.6
82.5°	69.4	111.8	151.9	167.1	171.5
85°	38.0	73.8	95.5	102.0	102.0
87.5°	16.3	31.5	38.0	39.1	40.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)