

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: P276194

Luminaire Tested: **24CZ2-35HE-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276194  
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-L92765-W2A1-U-6500K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3159.6 lumens  
Efficiency: N/A  
Efficacy: 124.9 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

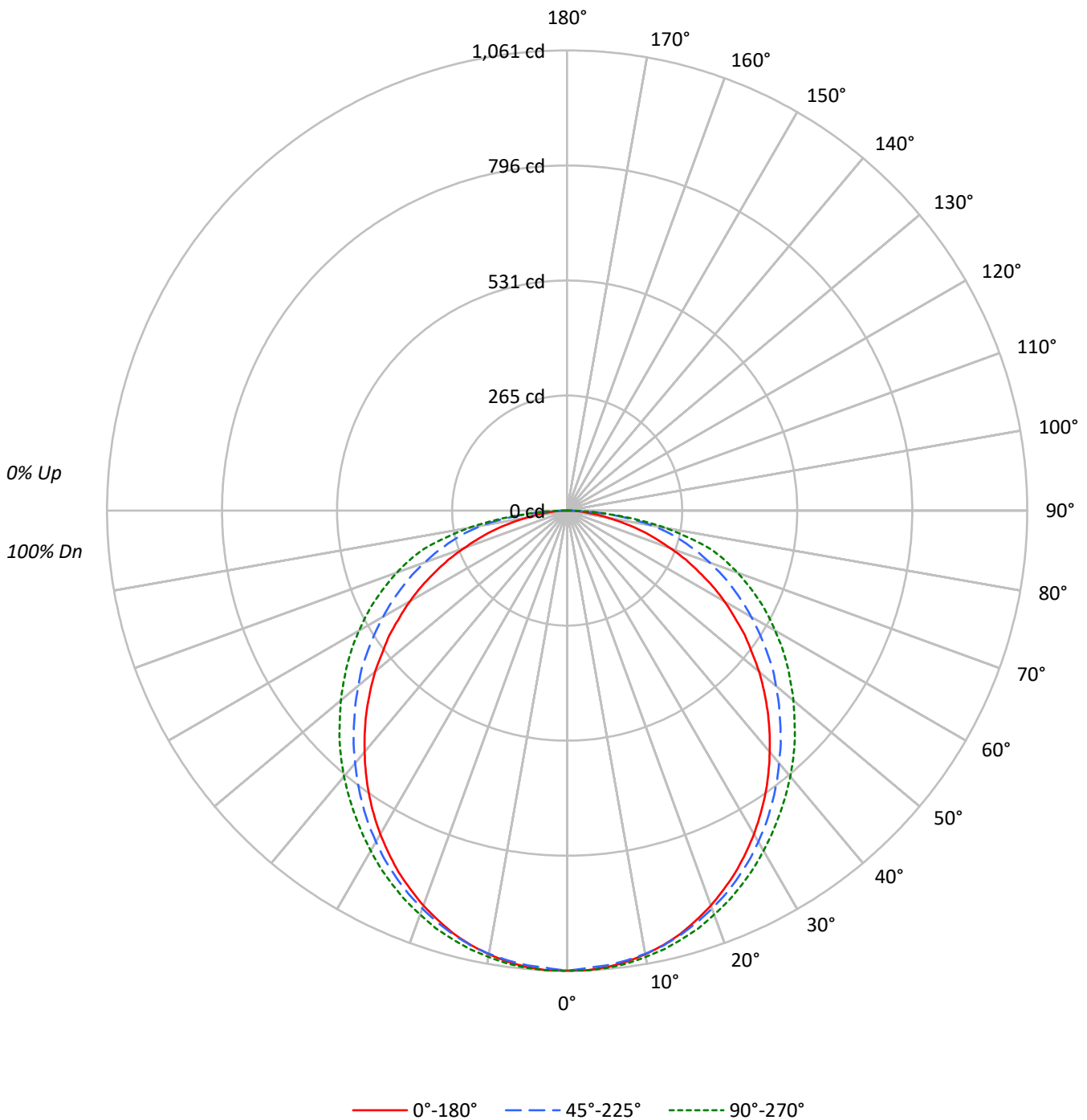
Input Watts (W): 25.296  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1427	1427	1427
5°	1427	1421	1430
10°	1419	1418	1428
15°	1407	1410	1425
20°	1388	1398	1419
25°	1365	1385	1414
30°	1338	1370	1407
35°	1309	1353	1403
40°	1276	1335	1406
45°	1244	1322	1413
50°	1210	1316	1426
55°	1172	1313	1452
60°	1126	1319	1490
65°	1067	1339	1554
70°	991	1373	1643
75°	905	1442	1782
80°	744	1553	1781
85°	570	1433	1530



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.3	3.2
10°-20°	286.4	9.1
20°-30°	431.0	13.6
30°-40°	516.6	16.3
40°-50°	538.3	17.0
50°-60°	500.8	15.9
60°-70°	412.5	13.1
70°-80°	280.9	8.9
80°-90°	92.7	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°	817.8	25.9
0°-40°	1334.4	42.2
0°-60°	2373.5	75.1
0°-90°	3159.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3159.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1057	1057	1052	1058	1059	100
15°	1010	1011	1012	1022	1023	285
25°	920	924	933	949	952	423
35°	797	807	824	846	854	498
45°	654	668	695	730	742	504
55°	500	517	560	604	619	446
65°	335	364	421	470	488	333
75°	174	213	277	327	343	183
85°	37	72	93	99	99	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1060.8	1060.8	1060.8	1060.8	1060.8
2.5°	1060.8	1060.8	1055.6	1060.8	1060.8
5°	1056.6	1056.6	1052.4	1057.7	1058.7
7.5°	1049.2	1050.3	1046.1	1052.4	1053.5
10°	1038.7	1039.7	1037.6	1044.0	1045.0
12.5°	1026.0	1027.1	1027.1	1034.5	1035.5
15°	1010.2	1011.3	1012.3	1021.8	1022.9
17.5°	990.2	993.3	995.5	1007.1	1009.2
20°	969.1	972.3	976.5	989.1	991.2
22.5°	944.8	949.1	956.4	970.2	973.3
25°	919.5	923.8	933.2	949.1	952.2
27.5°	891.1	897.4	909.0	925.9	930.1
30°	861.5	867.9	881.6	899.5	905.8
32.5°	829.9	838.3	854.2	874.2	880.5
35°	797.2	806.7	823.6	845.7	854.2
37.5°	762.4	773.0	793.0	817.2	827.8
40°	726.6	739.2	760.3	788.8	800.4
42.5°	690.7	702.3	728.7	759.2	771.9
45°	653.8	667.5	694.9	729.7	742.4
47.5°	615.8	629.5	662.2	699.1	710.7
50°	577.9	591.6	628.5	667.5	681.2
52.5°	536.7	554.7	596.9	635.9	649.6
55°	499.8	516.7	559.9	604.2	619.0
57.5°	457.7	477.7	525.1	571.5	587.4
60°	418.6	439.7	490.3	537.8	553.6
62.5°	378.6	401.8	455.5	504.1	522.0
65°	335.3	363.8	420.7	470.3	488.2
67.5°	296.3	325.8	386.0	436.6	452.4
70°	252.0	287.9	349.0	399.7	417.6
72.5°	214.1	249.9	314.2	363.8	381.7
75°	174.0	213.0	277.3	326.9	342.7
77.5°	133.9	177.2	241.5	279.4	284.7
80°	96.0	141.3	200.4	222.5	229.9
82.5°	67.5	108.6	147.6	162.4	166.6
85°	36.9	71.7	92.8	99.1	99.1
87.5°	15.8	30.6	36.9	38.0	39.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)