

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: P276937

Luminaire Tested: **24CZ2-60HE-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-60HE-RDP-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3623.4 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

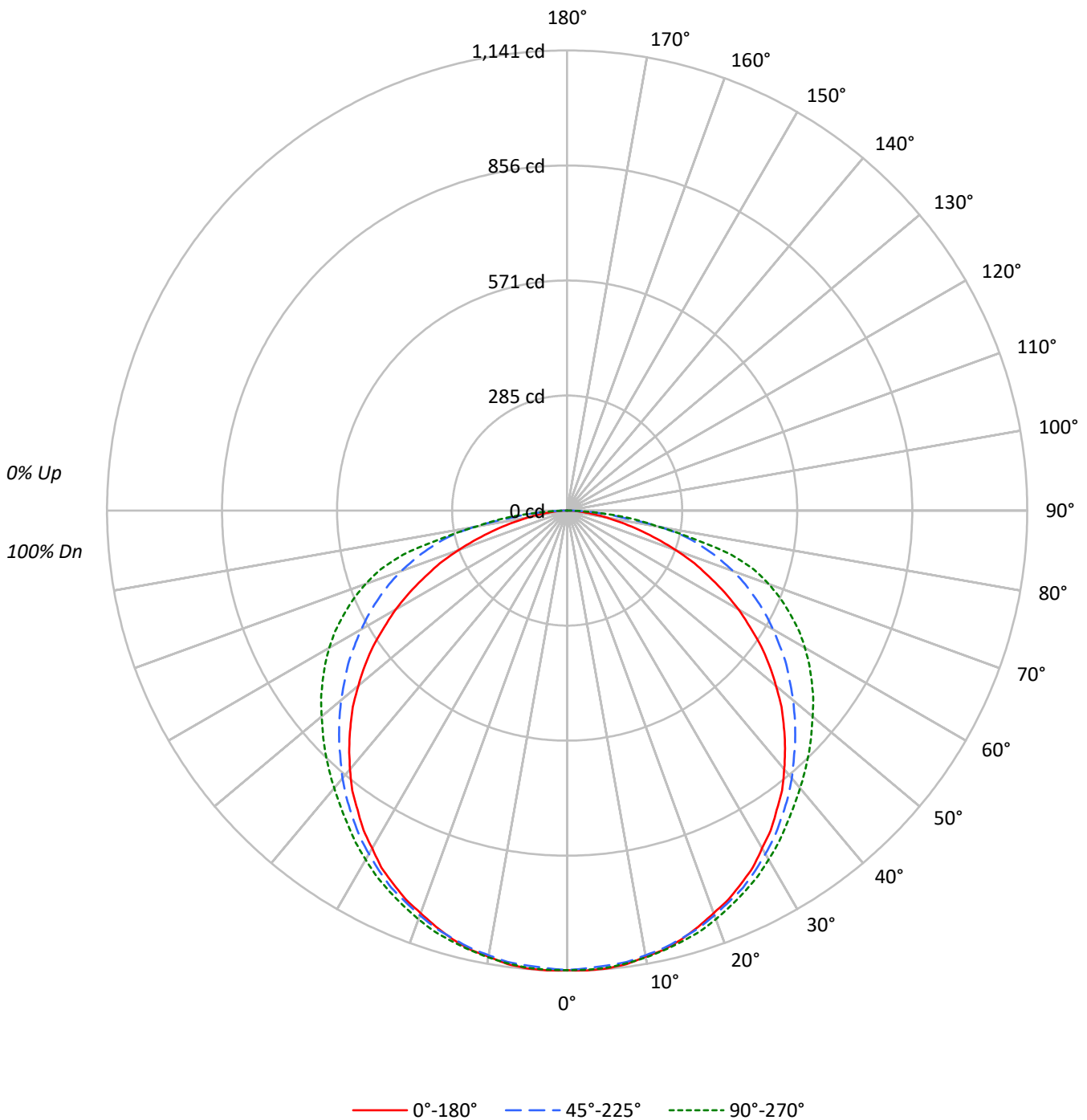
Input Watts (W): 43.989
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82					82			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67					67			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56					56			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35					35			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27					27			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1533	1533	1533
5°	1539	1529	1537
10°	1535	1530	1537
15°	1532	1530	1540
20°	1521	1529	1544
25°	1515	1531	1548
30°	1502	1527	1553
35°	1488	1523	1559
40°	1471	1522	1578
45°	1447	1522	1614
50°	1415	1531	1663
55°	1379	1556	1737
60°	1320	1586	1833
65°	1236	1642	1946
70°	1124	1718	2093
75°	953	1813	2187
80°	752	1824	1769
85°	554	1388	1553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	3.0
10°-20°	311.1	8.6
20°-30°	475.7	13.1
30°-40°	581.5	16.0
40°-50°	619.8	17.1
50°-60°	592.6	16.4
60°-70°	502.0	13.9
70°-80°	337.4	9.3
80°-90°	95.2	2.6
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°	894.9	24.7
0°-40°	1476.4	40.7
0°-60°	2688.8	74.2
0°-90°	3623.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3623.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1140	1138	1132	1138	1138	108
15°	1100	1100	1098	1107	1105	310
25°	1021	1024	1032	1041	1042	471
35°	906	913	927	945	949	567
45°	760	773	800	834	848	586
55°	588	609	663	715	740	523
65°	388	428	516	584	611	385
75°	183	250	349	408	421	196
85°	36	74	90	97	101	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1139.5	1139.5	1139.5	1139.5	1139.5
2.5°	1141.3	1141.3	1135.9	1139.5	1139.5
5°	1139.5	1137.7	1132.3	1137.7	1137.7
7.5°	1134.1	1132.3	1128.7	1134.1	1132.3
10°	1123.3	1123.3	1119.7	1125.1	1125.1
12.5°	1114.3	1112.5	1110.7	1117.9	1116.1
15°	1099.9	1099.9	1098.1	1107.1	1105.3
17.5°	1081.9	1083.7	1085.5	1092.7	1094.5
20°	1062.2	1065.8	1067.6	1078.4	1078.4
22.5°	1044.2	1046.0	1049.6	1060.4	1060.4
25°	1020.8	1024.4	1031.6	1040.6	1042.4
27.5°	997.5	999.3	1008.3	1020.8	1022.6
30°	966.9	972.3	983.1	997.5	999.3
32.5°	940.0	945.4	957.9	972.3	975.9
35°	905.8	913.0	927.4	945.4	949.0
37.5°	875.3	880.7	898.6	918.4	923.8
40°	837.5	848.3	866.3	889.6	898.6
42.5°	799.8	810.6	832.1	862.7	873.5
45°	760.2	772.8	799.8	833.9	848.3
47.5°	720.7	735.1	765.6	805.2	821.3
50°	675.8	693.7	731.5	776.4	794.4
52.5°	632.6	654.2	695.5	745.9	769.2
55°	587.7	609.3	663.2	715.3	740.5
57.5°	537.4	566.1	625.4	684.8	711.7
60°	490.7	517.6	589.5	654.2	681.2
62.5°	440.3	476.3	553.6	621.9	648.8
65°	388.2	427.7	515.8	584.1	611.1
67.5°	341.5	384.6	478.1	546.4	573.3
70°	285.8	339.7	436.7	505.0	532.0
72.5°	233.6	293.0	393.6	460.1	485.3
75°	183.3	249.8	348.7	408.0	420.6
77.5°	136.6	206.7	301.9	327.1	318.1
80°	97.1	165.3	235.4	222.9	228.3
82.5°	62.9	125.8	145.6	165.3	170.7
85°	35.9	73.7	89.9	97.1	100.6
87.5°	16.2	27.0	35.9	35.9	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)