

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: P276938

Luminaire Tested: **24CZ2-60HE-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276938
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-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3748.1 lumens
Efficiency: N/A
Efficacy: 84.3 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

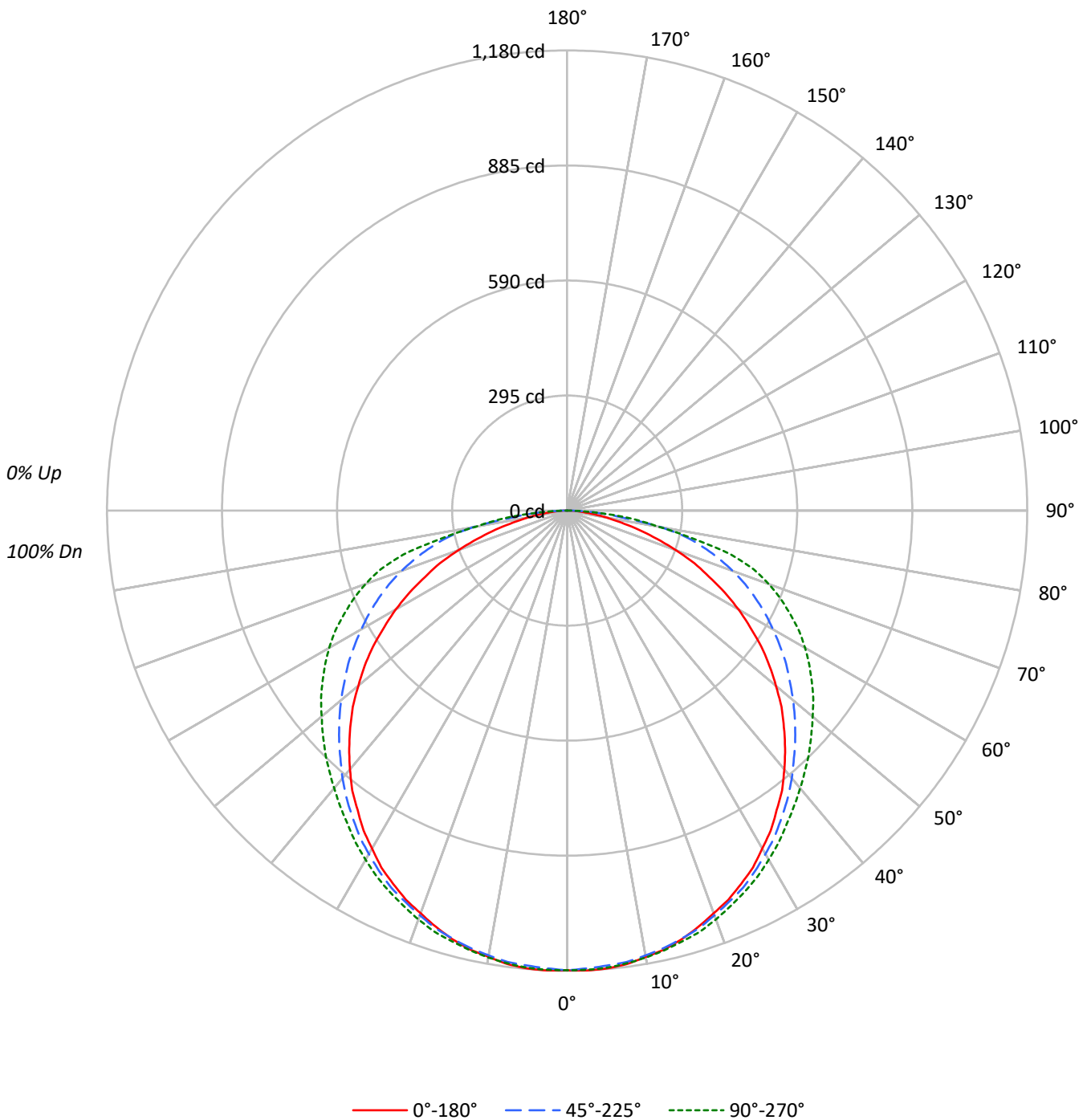
Input Watts (W): 44.454
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1586	1586	1586
5°	1592	1582	1589
10°	1587	1582	1590
15°	1585	1582	1593
20°	1573	1581	1597
25°	1568	1584	1601
30°	1554	1580	1606
35°	1539	1576	1612
40°	1522	1574	1633
45°	1496	1574	1670
50°	1463	1584	1720
55°	1426	1609	1797
60°	1366	1641	1896
65°	1279	1699	2012
70°	1163	1777	2165
75°	986	1875	2261
80°	778	1887	1829
85°	574	1436	1607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	3.0
10°-20°	321.8	8.6
20°-30°	492.1	13.1
30°-40°	601.6	16.0
40°-50°	641.1	17.1
50°-60°	613.0	16.4
60°-70°	519.3	13.9
70°-80°	349.0	9.3
80°-90°	98.4	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°	925.7	24.7
0°-40°	1527.2	40.7
0°-60°	2781.4	74.2
0°-90°	3748.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3748.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1179	1177	1171	1177	1177	112
15°	1138	1138	1136	1145	1143	321
25°	1056	1060	1067	1076	1078	487
35°	937	944	959	978	982	587
45°	786	799	827	863	878	607
55°	608	630	686	740	766	541
65°	402	442	534	604	632	399
75°	190	258	361	422	435	203
85°	37	76	93	100	104	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1178.7	1178.7	1178.7	1178.7	1178.7
2.5°	1180.5	1180.5	1175.0	1178.7	1178.7
5°	1178.7	1176.8	1171.2	1176.8	1176.8
7.5°	1173.1	1171.2	1167.5	1173.1	1171.2
10°	1161.9	1161.9	1158.2	1163.8	1163.8
12.5°	1152.6	1150.8	1148.9	1156.4	1154.5
15°	1137.8	1137.8	1135.9	1145.2	1143.4
17.5°	1119.2	1121.0	1122.9	1130.3	1132.2
20°	1098.7	1102.5	1104.3	1115.5	1115.5
22.5°	1080.1	1082.0	1085.7	1096.9	1096.9
25°	1056.0	1059.7	1067.1	1076.4	1078.3
27.5°	1031.8	1033.7	1043.0	1056.0	1057.8
30°	1000.2	1005.8	1016.9	1031.8	1033.7
32.5°	972.3	977.9	990.9	1005.8	1009.5
35°	937.0	944.4	959.3	977.9	981.6
37.5°	905.4	911.0	929.6	950.0	955.6
40°	866.3	877.5	896.1	920.3	929.6
42.5°	827.3	838.5	860.8	892.4	903.5
45°	786.4	799.4	827.3	862.6	877.5
47.5°	745.5	760.4	792.0	832.9	849.6
50°	699.0	717.6	756.7	803.1	821.7
52.5°	654.4	676.7	719.5	771.5	795.7
55°	607.9	630.2	686.0	739.9	766.0
57.5°	555.9	585.6	647.0	708.3	736.2
60°	507.5	535.4	609.8	676.7	704.6
62.5°	455.5	492.7	572.6	643.3	671.1
65°	401.6	442.5	533.6	604.2	632.1
67.5°	353.2	397.8	494.5	565.2	593.1
70°	295.6	351.4	451.8	522.4	550.3
72.5°	241.7	303.0	407.1	475.9	502.0
75°	189.6	258.4	360.7	422.0	435.0
77.5°	141.3	213.8	312.3	338.4	329.1
80°	100.4	171.0	243.5	230.5	236.1
82.5°	65.1	130.1	150.6	171.0	176.6
85°	37.2	76.2	93.0	100.4	104.1
87.5°	16.7	27.9	37.2	37.2	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)