

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: P276944

Luminaire Tested: **24CZ2-60HE-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276944
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-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4011.5 lumens
Efficiency: N/A
Efficacy: 86.8 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

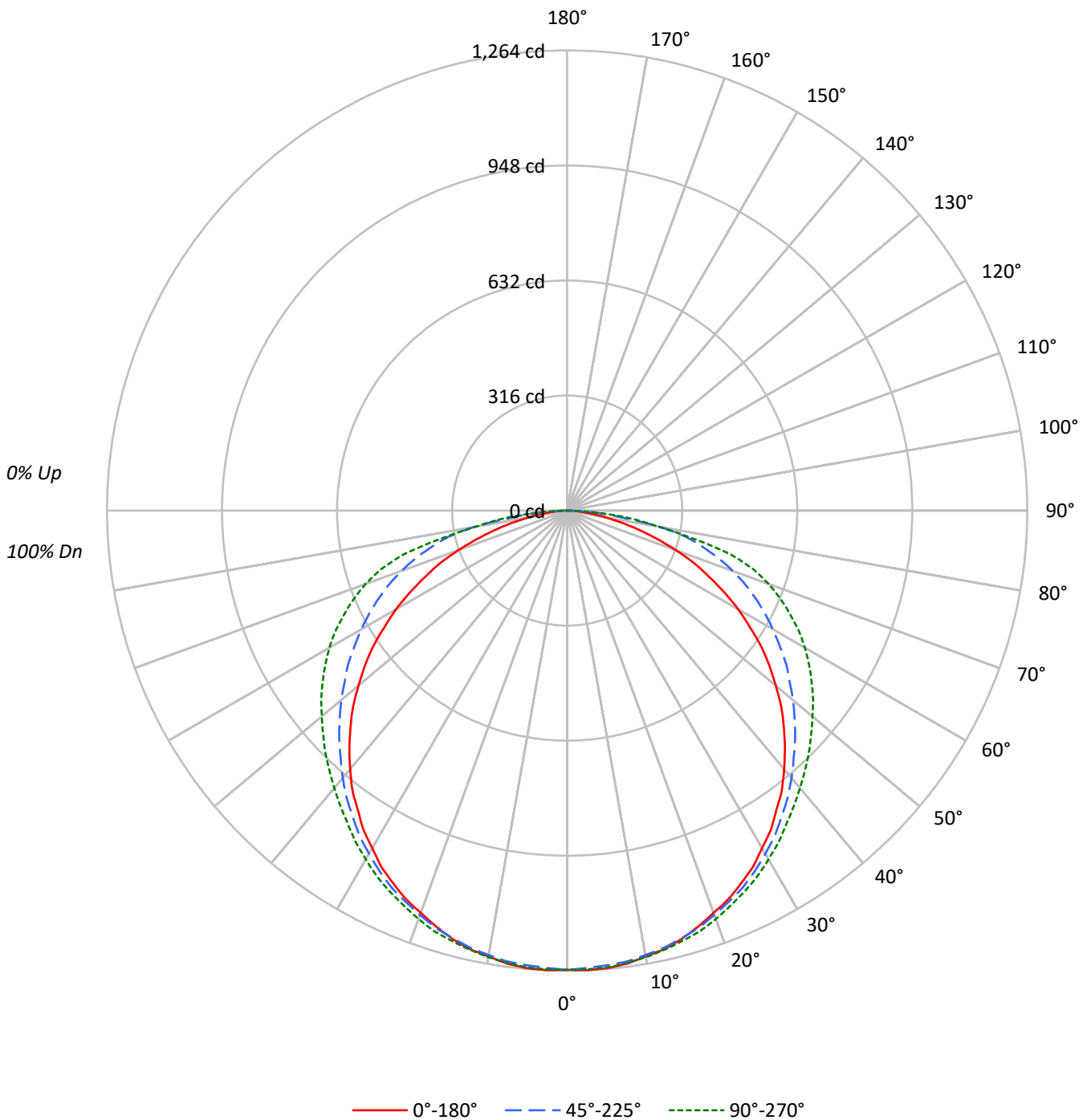
Input Watts (W): 46.221
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1697	1697	1697
5°	1704	1693	1701
10°	1699	1694	1702
15°	1696	1693	1705
20°	1684	1692	1709
25°	1678	1696	1713
30°	1663	1691	1719
35°	1647	1686	1726
40°	1629	1685	1747
45°	1602	1685	1787
50°	1566	1695	1841
55°	1526	1722	1923
60°	1462	1756	2029
65°	1368	1818	2154
70°	1245	1902	2317
75°	1055	2007	2420
80°	832	2020	1958
85°	614	1536	1720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	3.0
10°-20°	344.4	8.6
20°-30°	526.7	13.1
30°-40°	643.8	16.0
40°-50°	686.2	17.1
50°-60°	656.1	16.4
60°-70°	555.8	13.9
70°-80°	373.5	9.3
80°-90°	105.4	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°	990.7	24.7
0°-40°	1634.6	40.7
0°-60°	2976.8	74.2
0°-90°	4011.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4011.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1262	1260	1254	1260	1260	120
15°	1218	1218	1216	1226	1224	343
25°	1130	1134	1142	1152	1154	521
35°	1003	1011	1027	1047	1051	628
45°	842	856	885	923	939	649
55°	651	674	734	792	820	580
65°	430	474	571	647	676	427
75°	203	277	386	452	466	217
85°	40	82	100	107	111	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1261.5	1261.5	1261.5	1261.5	1261.5
2.5°	1263.5	1263.5	1257.5	1261.5	1261.5
5°	1261.5	1259.5	1253.6	1259.5	1259.5
7.5°	1255.5	1253.6	1249.6	1255.5	1253.6
10°	1243.6	1243.6	1239.6	1245.6	1245.6
12.5°	1233.7	1231.7	1229.7	1237.6	1235.6
15°	1217.7	1217.7	1215.7	1225.7	1223.7
17.5°	1197.8	1199.8	1201.8	1209.8	1211.8
20°	1175.9	1179.9	1181.9	1193.9	1193.9
22.5°	1156.1	1158.0	1162.0	1174.0	1174.0
25°	1130.2	1134.2	1142.1	1152.1	1154.1
27.5°	1104.3	1106.3	1116.3	1130.2	1132.2
30°	1070.5	1076.5	1088.4	1104.3	1106.3
32.5°	1040.6	1046.6	1060.5	1076.5	1080.4
35°	1002.8	1010.8	1026.7	1046.6	1050.6
37.5°	969.0	975.0	994.9	1016.8	1022.7
40°	927.2	939.2	959.1	984.9	994.9
42.5°	885.4	897.4	921.3	955.1	967.0
45°	841.7	855.6	885.4	923.2	939.2
47.5°	797.9	813.8	847.6	891.4	909.3
50°	748.2	768.0	809.8	859.6	879.5
52.5°	700.4	724.3	770.0	825.8	851.6
55°	650.7	674.5	734.2	791.9	819.8
57.5°	594.9	626.8	692.4	758.1	787.9
60°	543.2	573.1	652.6	724.3	754.1
62.5°	487.5	527.3	612.8	688.5	718.3
65°	429.8	473.6	571.1	646.7	676.5
67.5°	378.1	425.8	529.3	604.9	634.7
70°	316.4	376.1	483.5	559.1	589.0
72.5°	258.7	324.3	435.8	509.4	537.2
75°	203.0	276.6	386.0	451.7	465.6
77.5°	151.2	228.8	334.3	362.1	352.2
80°	107.4	183.1	260.7	246.7	252.7
82.5°	69.6	139.3	161.2	183.1	189.0
85°	39.8	81.6	99.5	107.4	111.4
87.5°	17.9	29.8	39.8	39.8	37.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)