

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: P276772

Luminaire Tested: **24CZ2-70HE-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276772
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: 24CZ2-70HE-RDP-UNV-L83050-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: 4239.0 lumens
Efficiency: N/A
Efficacy: 79.2 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

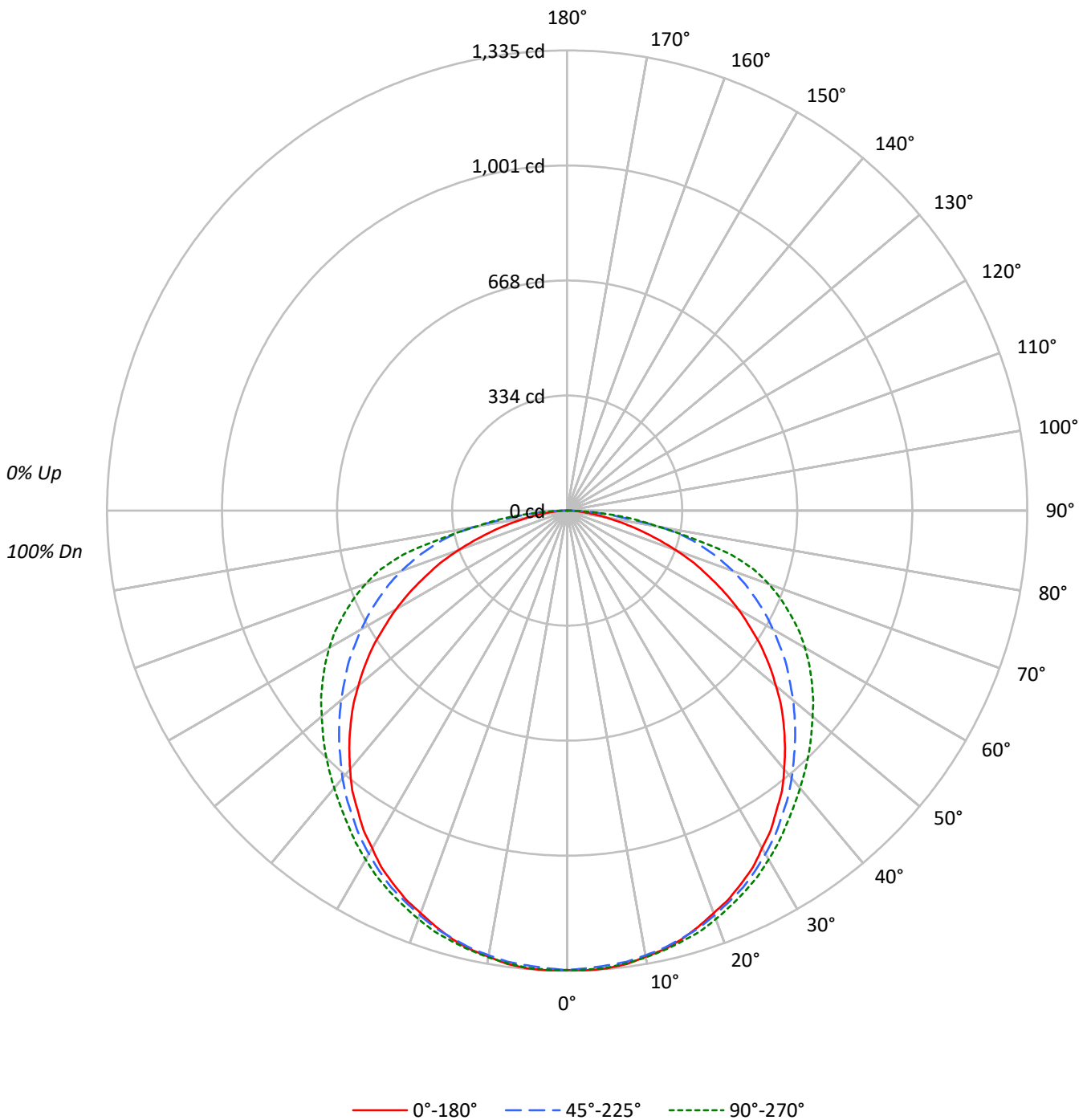
Input Watts (W): 53.553678
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1794	1794	1794
5°	1800	1789	1798
10°	1795	1790	1798
15°	1792	1790	1801
20°	1779	1788	1806
25°	1773	1792	1810
30°	1757	1787	1816
35°	1741	1782	1824
40°	1721	1780	1847
45°	1692	1780	1888
50°	1655	1791	1945
55°	1613	1820	2032
60°	1545	1856	2144
65°	1446	1921	2276
70°	1315	2010	2448
75°	1115	2120	2558
80°	879	2134	2069
85°	650	1623	1817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	3.0
10°-20°	363.9	8.6
20°-30°	556.5	13.1
30°-40°	680.3	16.0
40°-50°	725.1	17.1
50°-60°	693.3	16.4
60°-70°	587.3	13.9
70°-80°	394.7	9.3
80°-90°	111.3	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°	1046.9	24.7
0°-40°	1727.2	40.7
0°-60°	3145.6	74.2
0°-90°	4239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4239.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1333	1331	1325	1331	1331	127
15°	1287	1287	1285	1295	1293	363
25°	1194	1198	1207	1217	1220	550
35°	1060	1068	1085	1106	1110	664
45°	889	904	936	976	992	686
55°	688	713	776	837	866	612
65°	454	500	603	683	715	451
75°	214	292	408	477	492	230
85°	42	86	105	114	118	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1333.0	1333.0	1333.0	1333.0	1333.0
2.5°	1335.1	1335.1	1328.8	1333.0	1333.0
5°	1333.0	1330.9	1324.6	1330.9	1330.9
7.5°	1326.7	1324.6	1320.4	1326.7	1324.6
10°	1314.1	1314.1	1309.9	1316.2	1316.2
12.5°	1303.6	1301.5	1299.4	1307.8	1305.7
15°	1286.8	1286.8	1284.7	1295.2	1293.1
17.5°	1265.8	1267.9	1270.0	1278.4	1280.5
20°	1242.6	1246.8	1248.9	1261.6	1261.6
22.5°	1221.6	1223.7	1227.9	1240.5	1240.5
25°	1194.3	1198.5	1206.9	1217.4	1219.5
27.5°	1166.9	1169.0	1179.6	1194.3	1196.4
30°	1131.2	1137.5	1150.1	1166.9	1169.0
32.5°	1099.7	1106.0	1120.7	1137.5	1141.7
35°	1059.7	1068.1	1084.9	1106.0	1110.2
37.5°	1024.0	1030.3	1051.3	1074.4	1080.7
40°	979.8	992.4	1013.5	1040.8	1051.3
42.5°	935.7	948.3	973.5	1009.2	1021.9
45°	889.4	904.1	935.7	975.6	992.4
47.5°	843.1	860.0	895.7	942.0	960.9
50°	790.6	811.6	855.8	908.3	929.3
52.5°	740.1	765.3	813.7	872.6	899.9
55°	687.5	712.8	775.9	836.8	866.3
57.5°	628.7	662.3	731.7	801.1	832.6
60°	574.0	605.5	689.7	765.3	796.9
62.5°	515.1	557.2	647.6	727.5	759.0
65°	454.2	500.4	603.4	683.3	714.9
67.5°	399.5	450.0	559.3	639.2	670.7
70°	334.3	397.4	510.9	590.8	622.4
72.5°	273.3	342.7	460.5	538.3	567.7
75°	214.5	292.3	407.9	477.3	492.0
77.5°	159.8	241.8	353.2	382.7	372.2
80°	113.5	193.4	275.4	260.7	267.0
82.5°	73.6	147.2	170.3	193.4	199.7
85°	42.1	86.2	105.1	113.5	117.7
87.5°	18.9	31.5	42.1	42.1	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)