

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: P276955

Luminaire Tested: **24CZ2-70HE-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276955
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-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: 4235.5 lumens
Efficiency: N/A
Efficacy: 79.5 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

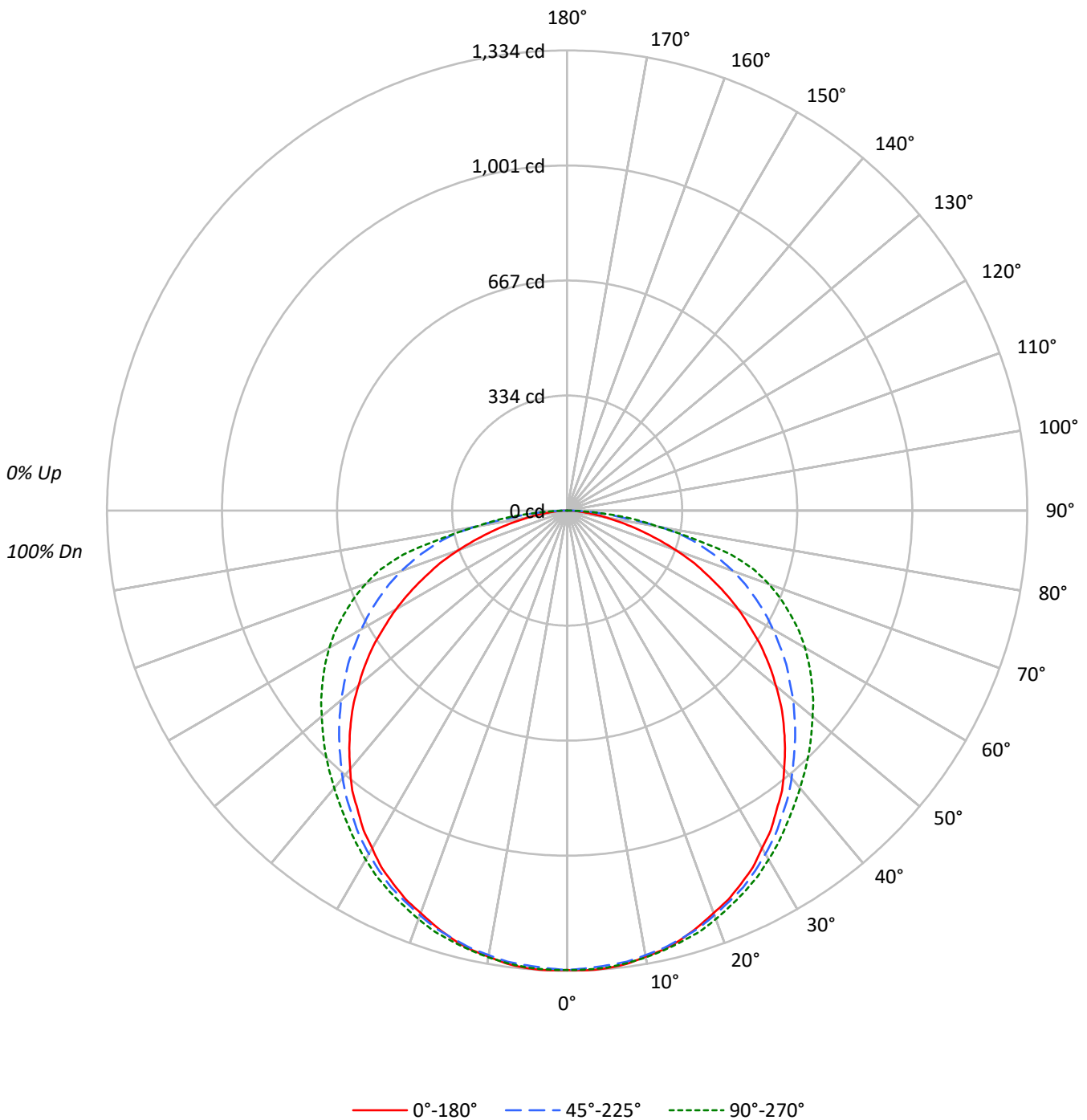
Input Watts (W): 53.289
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1792	1792	1792
5°	1799	1788	1796
10°	1794	1788	1797
15°	1791	1788	1800
20°	1778	1787	1805
25°	1772	1790	1809
30°	1756	1785	1815
35°	1739	1781	1822
40°	1720	1779	1845
45°	1691	1779	1887
50°	1653	1790	1944
55°	1612	1818	2030
60°	1543	1854	2143
65°	1445	1919	2274
70°	1314	2008	2447
75°	1114	2119	2556
80°	879	2132	2067
85°	648	1621	1815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	3.0
10°-20°	363.6	8.6
20°-30°	556.1	13.1
30°-40°	679.8	16.0
40°-50°	724.5	17.1
50°-60°	692.7	16.4
60°-70°	586.8	13.9
70°-80°	394.4	9.3
80°-90°	111.2	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°	1046.0	24.7
0°-40°	1725.8	40.7
0°-60°	3143.0	74.2
0°-90°	4235.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4235.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1332	1330	1324	1330	1330	127
15°	1286	1286	1284	1294	1292	363
25°	1193	1198	1206	1216	1218	550
35°	1059	1067	1084	1105	1109	663
45°	889	903	935	975	992	685
55°	687	712	775	836	866	612
65°	454	500	603	683	714	451
75°	214	292	408	477	492	229
85°	42	86	105	113	118	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1331.9	1331.9	1331.9	1331.9	1331.9
2.5°	1334.0	1334.0	1327.7	1331.9	1331.9
5°	1331.9	1329.8	1323.5	1329.8	1329.8
7.5°	1325.6	1323.5	1319.3	1325.6	1323.5
10°	1313.0	1313.0	1308.8	1315.1	1315.1
12.5°	1302.5	1300.4	1298.3	1306.7	1304.6
15°	1285.7	1285.7	1283.6	1294.1	1292.0
17.5°	1264.7	1266.8	1268.9	1277.3	1279.4
20°	1241.6	1245.8	1247.9	1260.5	1260.5
22.5°	1220.6	1222.7	1226.9	1239.5	1239.5
25°	1193.3	1197.5	1205.9	1216.4	1218.5
27.5°	1166.0	1168.1	1178.6	1193.3	1195.4
30°	1130.3	1136.6	1149.2	1166.0	1168.1
32.5°	1098.7	1105.0	1119.8	1136.6	1140.8
35°	1058.8	1067.2	1084.0	1105.0	1109.2
37.5°	1023.1	1029.4	1050.4	1073.5	1079.8
40°	979.0	991.6	1012.6	1039.9	1050.4
42.5°	934.9	947.5	972.7	1008.4	1021.0
45°	888.7	903.4	934.9	974.8	991.6
47.5°	842.4	859.2	895.0	941.2	960.1
50°	789.9	810.9	855.0	907.6	928.6
52.5°	739.5	764.7	813.0	871.9	899.2
55°	687.0	712.2	775.2	836.1	865.5
57.5°	628.2	661.8	731.1	800.4	831.9
60°	573.5	605.0	689.1	764.7	796.2
62.5°	514.7	556.7	647.1	726.9	758.4
65°	453.8	500.0	602.9	682.8	714.3
67.5°	399.2	449.6	558.8	638.7	670.2
70°	334.0	397.1	510.5	590.3	621.9
72.5°	273.1	342.4	460.1	537.8	567.2
75°	214.3	292.0	407.6	476.9	491.6
77.5°	159.7	241.6	352.9	382.4	371.9
80°	113.4	193.3	275.2	260.5	266.8
82.5°	73.5	147.1	170.2	193.3	199.6
85°	42.0	86.1	105.0	113.4	117.6
87.5°	18.9	31.5	42.0	42.0	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)