

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: P276962

Luminaire Tested: **24CZ2-70HE-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276962  
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-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: 4689.1 lumens  
Efficiency: N/A  
Efficacy: 83.6 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

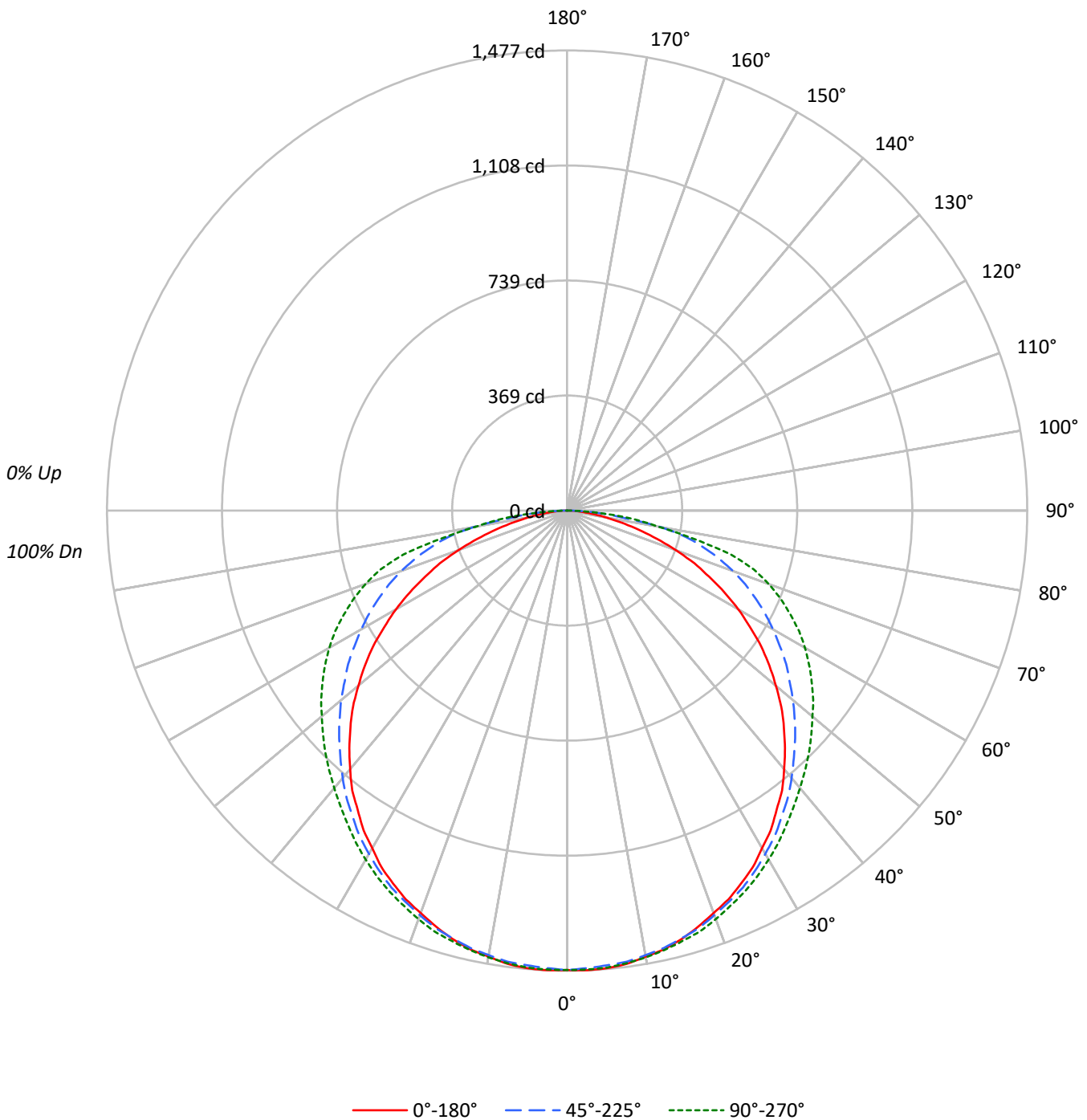
Input Watts (W): 56.079  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1984	1984	1984
5°	1992	1979	1989
10°	1986	1980	1989
15°	1983	1980	1992
20°	1968	1978	1998
25°	1961	1982	2003
30°	1944	1977	2009
35°	1925	1971	2017
40°	1904	1969	2043
45°	1872	1969	2089
50°	1831	1981	2152
55°	1784	2013	2248
60°	1709	2053	2372
65°	1599	2125	2518
70°	1455	2223	2709
75°	1233	2346	2830
80°	973	2361	2289
85°	718	1795	2010



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.9	3.0
10°-20°	402.6	8.6
20°-30°	615.6	13.1
30°-40°	752.6	16.0
40°-50°	802.1	17.1
50°-60°	766.9	16.4
60°-70°	649.7	13.9
70°-80°	436.6	9.3
80°-90°	123.2	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°	1158.1	24.7
0°-40°	1910.6	40.7
0°-60°	3479.7	74.2
0°-90°	4689.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4689.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1475	1475	1475	1475	1475	
5°	1475	1472	1465	1472	1472	140
15°	1423	1423	1421	1433	1430	401
25°	1321	1326	1335	1347	1349	609
35°	1172	1182	1200	1223	1228	734
45°	984	1000	1035	1079	1098	759
55°	761	788	858	926	958	677
65°	502	554	668	756	791	499
75°	237	323	451	528	544	254
85°	46	95	116	126	130	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1474.6	1474.6	1474.6	1474.6	1474.6
2.5°	1476.9	1476.9	1469.9	1474.6	1474.6
5°	1474.6	1472.3	1465.3	1472.3	1472.3
7.5°	1467.6	1465.3	1460.6	1467.6	1465.3
10°	1453.7	1453.7	1449.0	1456.0	1456.0
12.5°	1442.0	1439.7	1437.4	1446.7	1444.4
15°	1423.4	1423.4	1421.1	1432.7	1430.4
17.5°	1400.2	1402.5	1404.8	1414.1	1416.4
20°	1374.6	1379.2	1381.6	1395.5	1395.5
22.5°	1351.3	1353.7	1358.3	1372.3	1372.3
25°	1321.1	1325.7	1335.0	1346.7	1349.0
27.5°	1290.9	1293.2	1304.8	1321.1	1323.4
30°	1251.3	1258.3	1272.2	1290.9	1293.2
32.5°	1216.4	1223.4	1239.7	1258.3	1262.9
35°	1172.2	1181.5	1200.1	1223.4	1228.1
37.5°	1132.7	1139.7	1162.9	1188.5	1195.5
40°	1083.9	1097.8	1121.1	1151.3	1162.9
42.5°	1035.0	1049.0	1076.9	1116.4	1130.4
45°	983.8	1000.1	1035.0	1079.2	1097.8
47.5°	932.7	951.3	990.8	1042.0	1062.9
50°	874.5	897.8	946.6	1004.8	1028.0
52.5°	818.7	846.6	900.1	965.2	995.5
55°	760.6	788.5	858.2	925.7	958.3
57.5°	695.4	732.6	809.4	886.2	921.0
60°	635.0	669.8	762.9	846.6	881.5
62.5°	569.8	616.4	716.4	804.7	839.6
65°	502.4	553.6	667.5	755.9	790.8
67.5°	441.9	497.7	618.7	707.1	741.9
70°	369.8	439.6	565.2	653.6	688.5
72.5°	302.4	379.1	509.4	595.4	628.0
75°	237.2	323.3	451.2	528.0	544.3
77.5°	176.8	267.5	390.7	423.3	411.7
80°	125.6	214.0	304.7	288.4	295.4
82.5°	81.4	162.8	188.4	214.0	221.0
85°	46.5	95.4	116.3	125.6	130.2
87.5°	20.9	34.9	46.5	46.5	44.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)