

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: P276961

Luminaire Tested: **24CZ2-70HE-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276961
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-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4677.0 lumens
Efficiency: N/A
Efficacy: 84.8 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

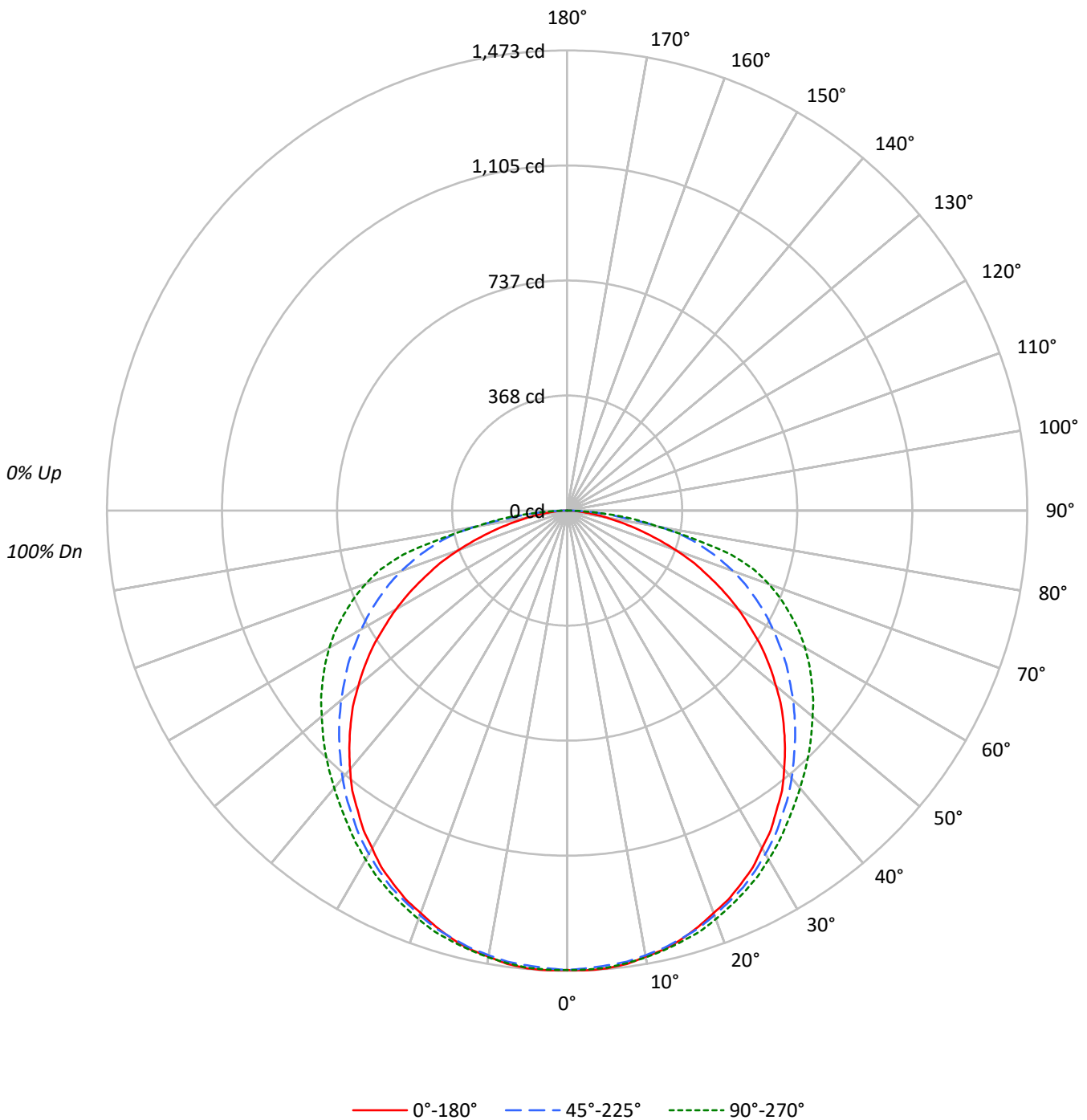
Input Watts (W): 55.149
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1979	1979	1979
5°	1987	1974	1983
10°	1981	1975	1984
15°	1978	1974	1987
20°	1963	1973	1993
25°	1956	1977	1998
30°	1939	1972	2004
35°	1920	1966	2012
40°	1899	1964	2037
45°	1867	1964	2084
50°	1826	1976	2146
55°	1780	2008	2242
60°	1704	2048	2366
65°	1595	2120	2511
70°	1451	2218	2701
75°	1230	2340	2822
80°	971	2355	2283
85°	716	1791	2005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.5	3.0
10°-20°	401.5	8.6
20°-30°	614.0	13.1
30°-40°	750.6	16.0
40°-50°	800.0	17.1
50°-60°	764.9	16.4
60°-70°	648.0	13.9
70°-80°	435.5	9.3
80°-90°	122.8	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°	1155.1	24.7
0°-40°	1905.7	40.7
0°-60°	3470.7	74.2
0°-90°	4677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1471	1468	1462	1468	1468	140
15°	1420	1420	1417	1429	1427	400
25°	1318	1322	1332	1343	1346	607
35°	1169	1178	1197	1220	1225	732
45°	981	998	1032	1076	1095	757
55°	759	786	856	923	956	676
65°	501	552	666	754	789	497
75°	237	322	450	527	543	253
85°	46	95	116	125	130	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1470.8	1470.8	1470.8	1470.8	1470.8
2.5°	1473.1	1473.1	1466.2	1470.8	1470.8
5°	1470.8	1468.5	1461.5	1468.5	1468.5
7.5°	1463.8	1461.5	1456.9	1463.8	1461.5
10°	1449.9	1449.9	1445.3	1452.2	1452.2
12.5°	1438.3	1436.0	1433.7	1443.0	1440.6
15°	1419.8	1419.8	1417.4	1429.0	1426.7
17.5°	1396.6	1398.9	1401.2	1410.5	1412.8
20°	1371.0	1375.7	1378.0	1391.9	1391.9
22.5°	1347.8	1350.2	1354.8	1368.7	1368.7
25°	1317.7	1322.3	1331.6	1343.2	1345.5
27.5°	1287.5	1289.8	1301.4	1317.7	1320.0
30°	1248.1	1255.0	1269.0	1287.5	1289.8
32.5°	1213.3	1220.2	1236.5	1255.0	1259.7
35°	1169.2	1178.5	1197.0	1220.2	1224.9
37.5°	1129.8	1136.7	1159.9	1185.5	1192.4
40°	1081.1	1095.0	1118.2	1148.3	1159.9
42.5°	1032.3	1046.3	1074.1	1113.5	1127.5
45°	981.3	997.5	1032.3	1076.4	1095.0
47.5°	930.3	948.8	988.3	1039.3	1060.2
50°	872.3	895.5	944.2	1002.2	1025.4
52.5°	816.6	844.4	897.8	962.7	992.9
55°	758.6	786.4	856.0	923.3	955.8
57.5°	693.6	730.8	807.3	883.9	918.7
60°	633.3	668.1	760.9	844.4	879.2
62.5°	568.4	614.8	714.5	802.7	837.5
65°	501.1	552.1	665.8	754.0	788.8
67.5°	440.8	496.5	617.1	705.2	740.0
70°	368.9	438.5	563.7	651.9	686.7
72.5°	301.6	378.1	508.1	593.9	626.4
75°	236.6	322.5	450.1	526.6	542.8
77.5°	176.3	266.8	389.7	422.2	410.6
80°	125.3	213.4	303.9	287.7	294.6
82.5°	81.2	162.4	187.9	213.4	220.4
85°	46.4	95.1	116.0	125.3	129.9
87.5°	20.9	34.8	46.4	46.4	44.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)