

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: P276963

Luminaire Tested: **24CZ2-75HE-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276963
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: 24CZ2-75HE-RDP-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4400.9 lumens
Efficiency: N/A
Efficacy: 75.4 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

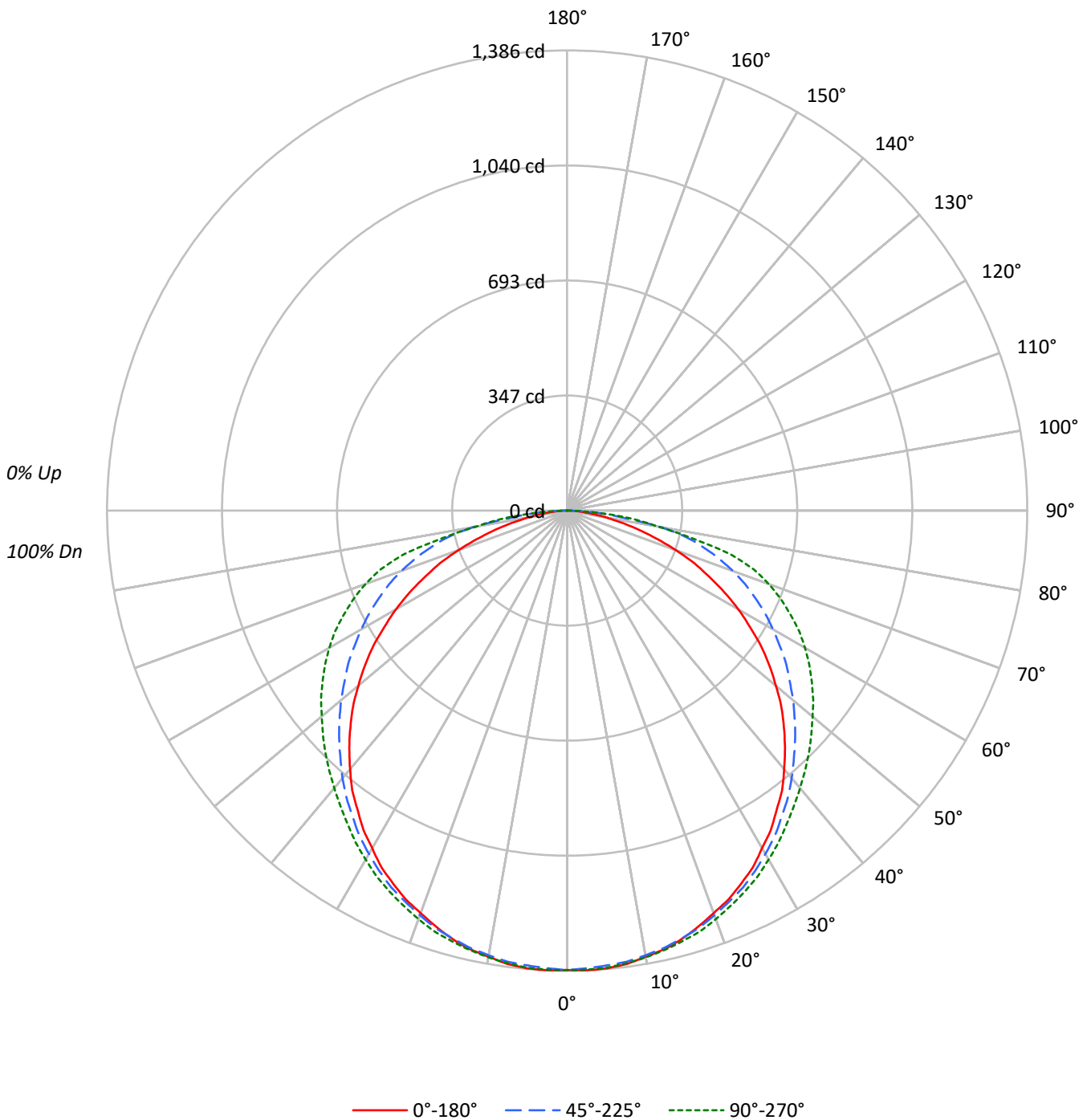
Input Watts (W): 58.404
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1862	1862	1862
5°	1869	1857	1866
10°	1864	1858	1867
15°	1861	1858	1870
20°	1847	1857	1875
25°	1841	1860	1880
30°	1825	1855	1886
35°	1807	1850	1893
40°	1787	1848	1917
45°	1757	1848	1960
50°	1718	1860	2020
55°	1674	1890	2110
60°	1604	1927	2226
65°	1501	1995	2363
70°	1365	2087	2542
75°	1158	2202	2655
80°	914	2216	2148
85°	675	1684	1886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	3.0
10°-20°	377.8	8.6
20°-30°	577.8	13.1
30°-40°	706.3	16.0
40°-50°	752.8	17.1
50°-60°	719.8	16.4
60°-70°	609.7	13.9
70°-80°	409.8	9.3
80°-90°	115.6	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°	1086.9	24.7
0°-40°	1793.2	40.7
0°-60°	3265.8	74.2
0°-90°	4400.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4400.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1384	1382	1375	1382	1382	131
15°	1336	1336	1334	1345	1342	377
25°	1240	1244	1253	1264	1266	571
35°	1100	1109	1126	1148	1153	689
45°	923	939	971	1013	1030	712
55°	714	740	806	869	899	636
65°	472	520	626	709	742	468
75°	223	303	424	496	511	238
85°	44	90	109	118	122	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1384.0	1384.0	1384.0	1384.0	1384.0
2.5°	1386.1	1386.1	1379.6	1384.0	1384.0
5°	1384.0	1381.8	1375.2	1381.8	1381.8
7.5°	1377.4	1375.2	1370.9	1377.4	1375.2
10°	1364.3	1364.3	1359.9	1366.5	1366.5
12.5°	1353.4	1351.2	1349.0	1357.8	1355.6
15°	1335.9	1335.9	1333.8	1344.7	1342.5
17.5°	1314.1	1316.3	1318.5	1327.2	1329.4
20°	1290.1	1294.5	1296.6	1309.7	1309.7
22.5°	1268.3	1270.4	1274.8	1287.9	1287.9
25°	1239.9	1244.3	1253.0	1263.9	1266.1
27.5°	1211.5	1213.7	1224.6	1239.9	1242.1
30°	1174.4	1180.9	1194.0	1211.5	1213.7
32.5°	1141.7	1148.2	1163.5	1180.9	1185.3
35°	1100.2	1108.9	1126.4	1148.2	1152.6
37.5°	1063.1	1069.6	1091.4	1115.5	1122.0
40°	1017.2	1030.3	1052.2	1080.5	1091.4
42.5°	971.4	984.5	1010.7	1047.8	1060.9
45°	923.4	938.6	971.4	1012.9	1030.3
47.5°	875.3	892.8	929.9	977.9	997.6
50°	820.8	842.6	888.4	943.0	964.8
52.5°	768.4	794.6	844.8	905.9	934.3
55°	713.8	740.0	805.5	868.8	899.4
57.5°	652.7	687.6	759.6	831.7	864.4
60°	595.9	628.7	716.0	794.6	827.3
62.5°	534.8	578.5	672.3	755.3	788.0
65°	471.5	519.5	626.5	709.4	742.2
67.5°	414.8	467.1	580.7	663.6	696.3
70°	347.1	412.6	530.4	613.4	646.1
72.5°	283.8	355.8	478.1	558.8	589.4
75°	222.7	303.4	423.5	495.5	510.8
77.5°	165.9	251.0	366.7	397.3	386.4
80°	117.9	200.8	286.0	270.7	277.2
82.5°	76.4	152.8	176.8	200.8	207.4
85°	43.7	89.5	109.1	117.9	122.2
87.5°	19.6	32.7	43.7	43.7	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)