

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: P277102

Luminaire Tested: **24CZ2-75HE-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277102
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-L92765-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4345.6 lumens
Efficiency: N/A
Efficacy: 73.0 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

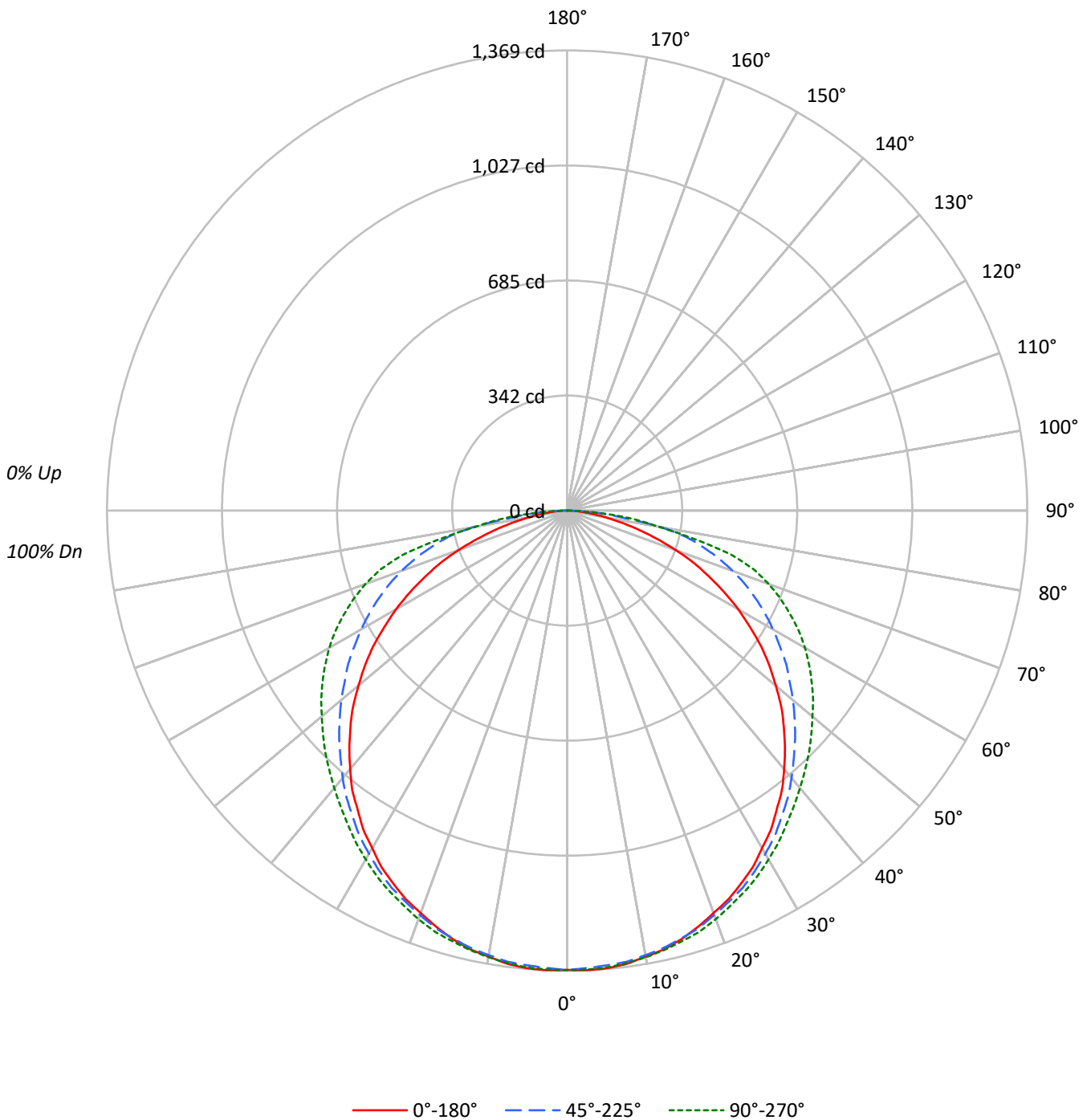
Input Watts (W): 59.52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82					82			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67					67			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56					56			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35					35			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27					27			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1839	1839	1839
5°	1846	1834	1843
10°	1841	1835	1843
15°	1837	1835	1846
20°	1824	1833	1852
25°	1818	1837	1856
30°	1802	1832	1862
35°	1784	1827	1869
40°	1764	1825	1893
45°	1735	1825	1936
50°	1696	1836	1994
55°	1653	1866	2083
60°	1583	1903	2198
65°	1482	1969	2333
70°	1348	2061	2510
75°	1143	2174	2622
80°	902	2188	2121
85°	665	1664	1863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	3.0
10°-20°	373.1	8.6
20°-30°	570.5	13.1
30°-40°	697.4	16.0
40°-50°	743.3	17.1
50°-60°	710.7	16.4
60°-70°	602.1	13.9
70°-80°	404.6	9.3
80°-90°	114.1	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°	1073.2	24.7
0°-40°	1770.7	40.7
0°-60°	3224.7	74.2
0°-90°	4345.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4345.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1367	1367	1367	1367	1367	
5°	1367	1364	1358	1364	1364	130
15°	1319	1319	1317	1328	1326	372
25°	1224	1229	1237	1248	1250	564
35°	1086	1095	1112	1134	1138	681
45°	912	927	959	1000	1017	703
55°	705	731	795	858	888	628
65°	466	513	619	700	733	462
75°	220	300	418	489	504	235
85°	43	88	108	116	121	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1366.6	1366.6	1366.6	1366.6	1366.6
2.5°	1368.7	1368.7	1362.2	1366.6	1366.6
5°	1366.6	1364.4	1357.9	1364.4	1364.4
7.5°	1360.1	1357.9	1353.6	1360.1	1357.9
10°	1347.2	1347.2	1342.8	1349.3	1349.3
12.5°	1336.4	1334.2	1332.1	1340.7	1338.5
15°	1319.1	1319.1	1317.0	1327.8	1325.6
17.5°	1297.6	1299.7	1301.9	1310.5	1312.7
20°	1273.9	1278.2	1280.3	1293.3	1293.3
22.5°	1252.3	1254.5	1258.8	1271.7	1271.7
25°	1224.3	1228.6	1237.2	1248.0	1250.2
27.5°	1196.3	1198.4	1209.2	1224.3	1226.4
30°	1159.6	1166.1	1179.0	1196.3	1198.4
32.5°	1127.3	1133.8	1148.9	1166.1	1170.4
35°	1086.3	1095.0	1112.2	1133.8	1138.1
37.5°	1049.7	1056.2	1077.7	1101.4	1107.9
40°	1004.4	1017.4	1038.9	1066.9	1077.7
42.5°	959.2	972.1	998.0	1034.6	1047.5
45°	911.8	926.8	959.2	1000.1	1017.4
47.5°	864.3	881.6	918.2	965.6	985.0
50°	810.4	832.0	877.3	931.2	952.7
52.5°	758.7	784.6	834.2	894.5	922.5
55°	704.8	730.7	795.4	857.9	888.0
57.5°	644.5	679.0	750.1	821.2	853.6
60°	588.4	620.8	707.0	784.6	816.9
62.5°	528.1	571.2	663.9	745.8	778.1
65°	465.6	513.0	618.6	700.5	732.9
67.5°	409.5	461.3	573.3	655.3	687.6
70°	342.7	407.4	523.8	605.7	638.0
72.5°	280.2	351.3	472.0	551.8	582.0
75°	219.9	299.6	418.2	489.3	504.4
77.5°	163.8	247.9	362.1	392.3	381.5
80°	116.4	198.3	282.4	267.3	273.7
82.5°	75.4	150.9	174.6	198.3	204.8
85°	43.1	88.4	107.8	116.4	120.7
87.5°	19.4	32.3	43.1	43.1	41.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)