

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: P277106

Luminaire Tested: **24CZ2-75HE-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277106
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-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4551.7 lumens
Efficiency: N/A
Efficacy: 74.5 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

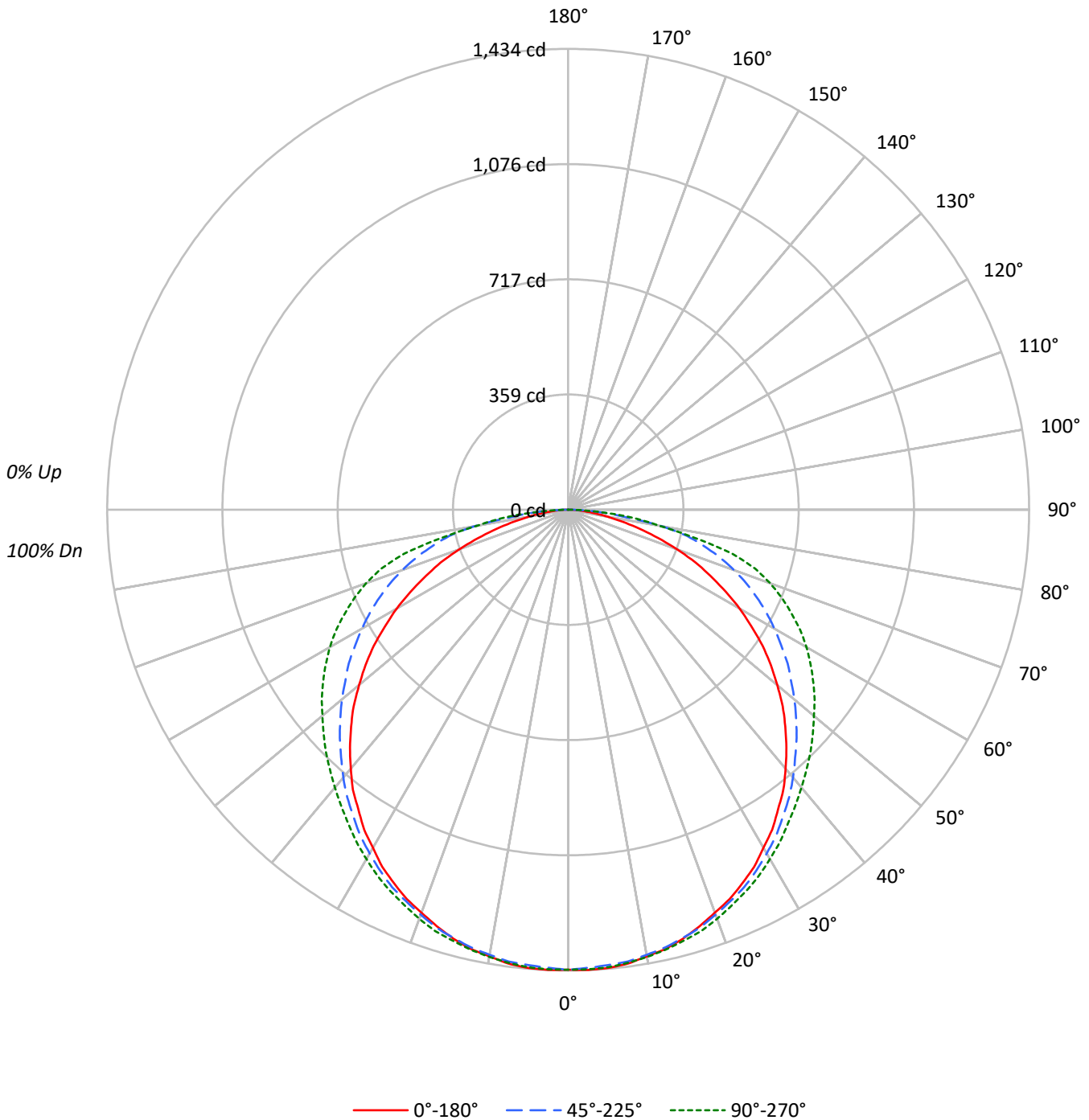
Input Watts (W): 61.101
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1926	1926	1926
5°	1933	1921	1930
10°	1928	1922	1931
15°	1925	1922	1934
20°	1911	1920	1940
25°	1904	1924	1944
30°	1887	1919	1950
35°	1869	1914	1958
40°	1848	1911	1983
45°	1817	1912	2028
50°	1777	1923	2089
55°	1732	1954	2182
60°	1659	1993	2303
65°	1553	2063	2444
70°	1412	2158	2629
75°	1197	2277	2746
80°	945	2292	2221
85°	698	1743	1951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	3.0
10°-20°	390.8	8.6
20°-30°	597.6	13.1
30°-40°	730.5	16.0
40°-50°	778.6	17.1
50°-60°	744.4	16.4
60°-70°	630.6	13.9
70°-80°	423.8	9.3
80°-90°	119.6	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°	1124.1	24.7
0°-40°	1854.7	40.7
0°-60°	3377.7	74.2
0°-90°	4551.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4551.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1431	1429	1422	1429	1429	136
15°	1382	1382	1380	1391	1388	390
25°	1282	1287	1296	1307	1310	591
35°	1138	1147	1165	1188	1192	713
45°	955	971	1005	1048	1066	737
55°	738	765	833	899	930	658
65°	488	537	648	734	768	484
75°	230	314	438	512	528	247
85°	45	93	113	122	126	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1431.4	1431.4	1431.4	1431.4	1431.4
2.5°	1433.6	1433.6	1426.9	1431.4	1431.4
5°	1431.4	1429.1	1422.3	1429.1	1429.1
7.5°	1424.6	1422.3	1417.8	1424.6	1422.3
10°	1411.1	1411.1	1406.5	1413.3	1413.3
12.5°	1399.8	1397.5	1395.3	1404.3	1402.0
15°	1381.7	1381.7	1379.5	1390.7	1388.5
17.5°	1359.1	1361.4	1363.6	1372.7	1374.9
20°	1334.3	1338.8	1341.1	1354.6	1354.6
22.5°	1311.7	1314.0	1318.5	1332.0	1332.0
25°	1282.4	1286.9	1295.9	1307.2	1309.5
27.5°	1253.0	1255.3	1266.6	1282.4	1284.6
30°	1214.6	1221.4	1235.0	1253.0	1255.3
32.5°	1180.8	1187.5	1203.4	1221.4	1225.9
35°	1137.9	1146.9	1165.0	1187.5	1192.1
37.5°	1099.5	1106.3	1128.8	1153.7	1160.5
40°	1052.1	1065.6	1088.2	1117.6	1128.8
42.5°	1004.7	1018.2	1045.3	1083.7	1097.2
45°	955.0	970.8	1004.7	1047.6	1065.6
47.5°	905.3	923.4	961.8	1011.4	1031.8
50°	848.9	871.5	918.9	975.3	997.9
52.5°	794.7	821.8	873.7	936.9	966.3
55°	738.3	765.4	833.1	898.6	930.2
57.5°	675.1	711.2	785.7	860.2	894.0
60°	616.4	650.2	740.5	821.8	855.7
62.5°	553.1	598.3	695.4	781.2	815.0
65°	487.7	537.3	648.0	733.8	767.6
67.5°	429.0	483.1	600.5	686.3	720.2
70°	359.0	426.7	548.6	634.4	668.3
72.5°	293.5	368.0	494.4	578.0	609.6
75°	230.3	313.8	438.0	512.5	528.3
77.5°	171.6	259.6	379.3	410.9	399.6
80°	121.9	207.7	295.8	280.0	286.7
82.5°	79.0	158.0	182.9	207.7	214.5
85°	45.2	92.6	112.9	121.9	126.4
87.5°	20.3	33.9	45.2	45.2	42.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)