

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: P276126

Luminaire Tested: **24CZ2-75HE-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-75HE-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7117.7 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

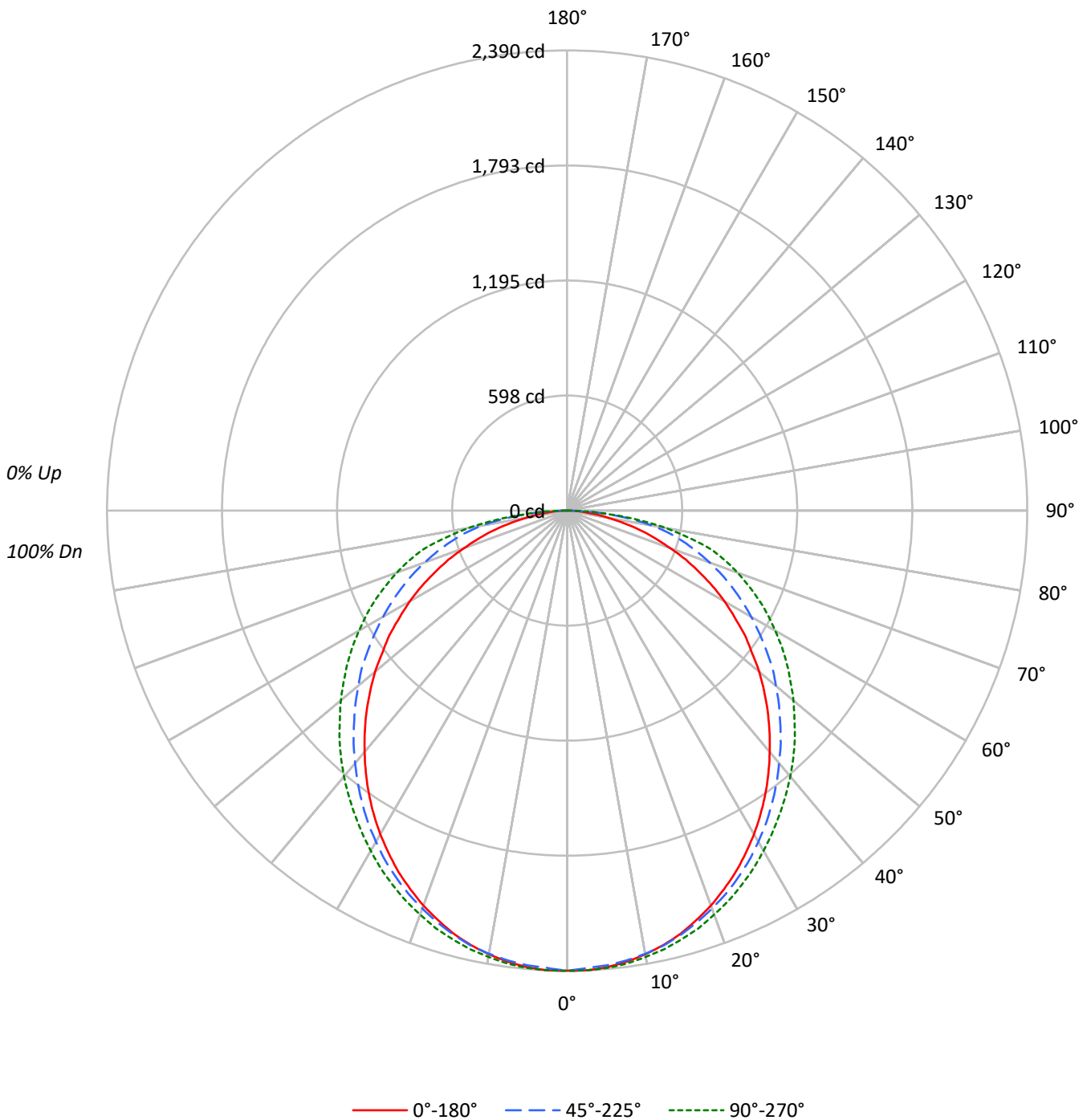
Input Watts (W): 59.055
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3215	3215	3215
5°	3215	3202	3221
10°	3197	3194	3216
15°	3170	3177	3210
20°	3126	3150	3197
25°	3075	3121	3185
30°	3015	3085	3170
35°	2950	3047	3160
40°	2875	3008	3167
45°	2802	2979	3182
50°	2725	2964	3212
55°	2641	2959	3271
60°	2538	2972	3356
65°	2405	3018	3502
70°	2233	3093	3701
75°	2038	3248	4013
80°	1675	3497	4013
85°	1283	3226	3447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.0	3.2
10°-20°	645.2	9.1
20°-30°	971.0	13.6
30°-40°	1163.6	16.3
40°-50°	1212.6	17.0
50°-60°	1128.2	15.9
60°-70°	929.2	13.1
70°-80°	632.8	8.9
80°-90°	208.9	2.9
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°	1842.3	25.9
0°-40°	3005.9	42.2
0°-60°	5346.7	75.1
0°-90°	7117.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7117.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2390	2390	2390	2390	2390	
5°	2380	2380	2371	2383	2385	226
15°	2276	2278	2280	2302	2304	641
25°	2071	2081	2102	2138	2145	954
35°	1796	1817	1855	1905	1924	1123
45°	1473	1504	1565	1644	1672	1136
55°	1126	1164	1261	1361	1394	1004
65°	755	820	948	1060	1100	750
75°	392	480	625	736	772	413
85°	83	162	209	223	223	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2389.7	2389.7	2389.7	2389.7	2389.7
2.5°	2389.7	2389.7	2377.9	2389.7	2389.7
5°	2380.2	2380.2	2370.7	2382.6	2385.0
7.5°	2363.6	2366.0	2356.5	2370.7	2373.1
10°	2339.9	2342.2	2337.5	2351.7	2354.1
12.5°	2311.4	2313.7	2313.7	2330.4	2332.7
15°	2275.7	2278.1	2280.5	2301.9	2304.2
17.5°	2230.6	2237.7	2242.5	2268.6	2273.3
20°	2183.1	2190.2	2199.7	2228.2	2233.0
22.5°	2128.4	2137.9	2154.6	2185.5	2192.6
25°	2071.4	2080.9	2102.3	2137.9	2145.1
27.5°	2007.3	2021.5	2047.7	2085.7	2095.2
30°	1940.8	1955.0	1985.9	2026.3	2040.5
32.5°	1869.5	1888.5	1924.1	1969.3	1983.5
35°	1795.9	1817.3	1855.3	1905.1	1924.1
37.5°	1717.5	1741.2	1786.4	1841.0	1864.8
40°	1636.7	1665.2	1712.7	1776.9	1803.0
42.5°	1555.9	1582.1	1641.5	1710.4	1738.9
45°	1472.8	1503.7	1565.4	1643.8	1672.3
47.5°	1387.3	1418.2	1491.8	1575.0	1601.1
50°	1301.8	1332.7	1415.8	1503.7	1534.6
52.5°	1209.1	1249.5	1344.5	1432.4	1463.3
55°	1126.0	1164.0	1261.4	1361.2	1394.4
57.5°	1031.0	1076.1	1183.0	1287.5	1323.1
60°	943.1	990.6	1104.6	1211.5	1247.1
62.5°	852.8	905.1	1026.2	1135.5	1175.9
65°	755.4	819.5	947.8	1059.5	1099.9
67.5°	667.5	734.0	869.4	983.5	1019.1
70°	567.7	648.5	786.3	900.3	940.7
72.5°	482.2	563.0	707.9	819.5	859.9
75°	392.0	479.8	624.8	736.4	772.0
77.5°	301.7	399.1	544.0	629.5	641.4
80°	216.2	318.3	451.3	501.2	517.9
82.5°	152.0	244.7	332.6	365.8	375.3
85°	83.1	161.5	209.0	223.3	223.3
87.5°	35.6	68.9	83.1	85.5	87.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)