

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: P275938

Luminaire Tested: **24CZ2-75HE-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275938
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-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7131.0 lumens
Efficiency: N/A
Efficacy: 122.1 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

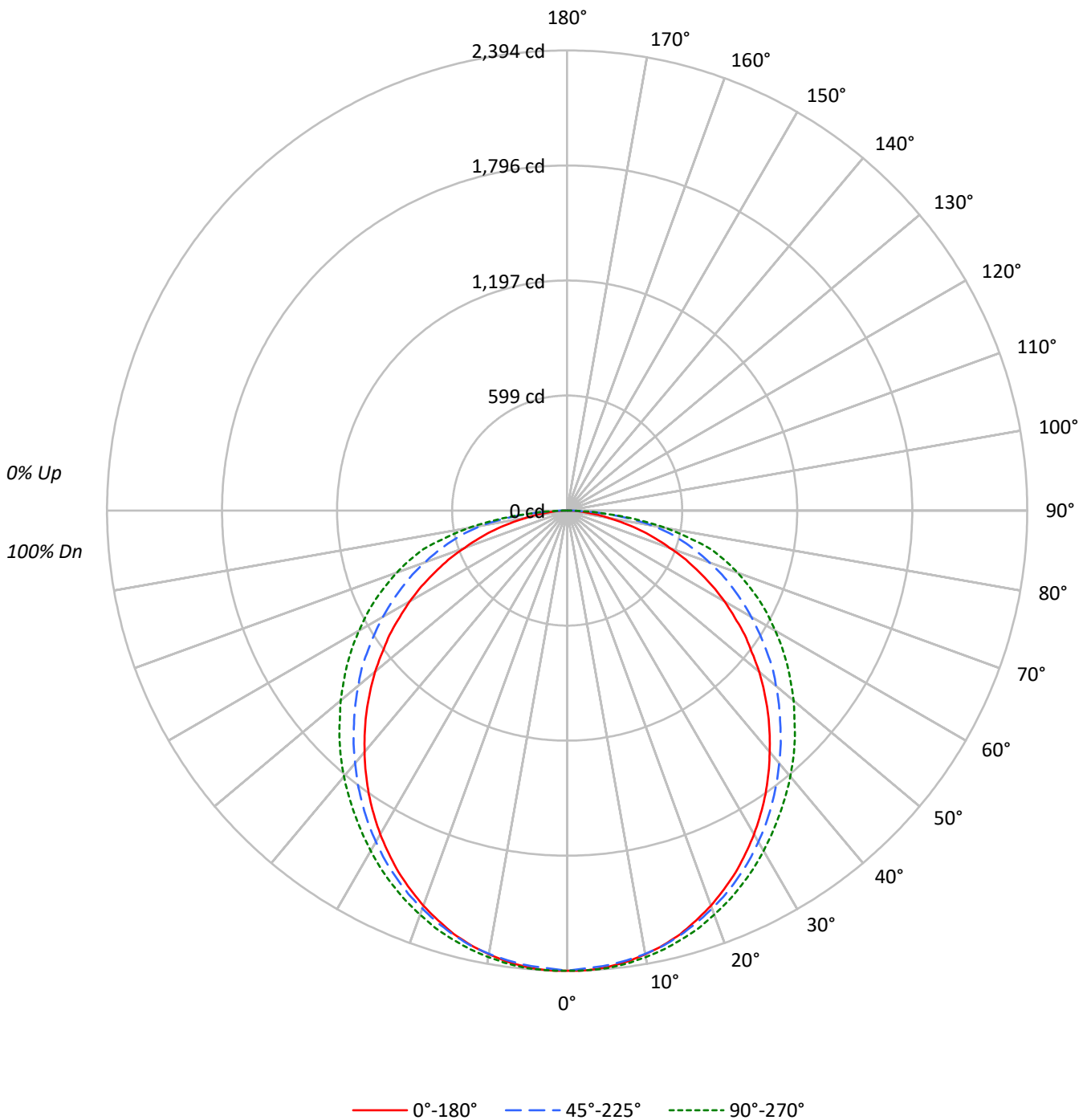
Input Watts (W): 58.404
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3221	3221	3221
5°	3221	3208	3227
10°	3203	3199	3222
15°	3176	3182	3216
20°	3132	3155	3203
25°	3081	3127	3191
30°	3021	3091	3176
35°	2955	3053	3166
40°	2880	3014	3173
45°	2808	2984	3188
50°	2730	2969	3218
55°	2646	2964	3277
60°	2542	2978	3362
65°	2409	3023	3508
70°	2238	3099	3708
75°	2041	3254	4021
80°	1678	3504	4020
85°	1286	3233	3453



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.4	3.2
10°-20°	646.5	9.1
20°-30°	972.8	13.6
30°-40°	1165.8	16.3
40°-50°	1214.9	17.0
50°-60°	1130.3	15.9
60°-70°	931.0	13.1
70°-80°	634.0	8.9
80°-90°	209.3	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°	1845.7	25.9
0°-40°	3011.5	42.2
0°-60°	5356.7	75.1
0°-90°	7131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2394	2394	2394	2394	2394	
5°	2385	2385	2375	2387	2389	226
15°	2280	2282	2285	2306	2308	642
25°	2075	2085	2106	2142	2149	955
35°	1799	1821	1859	1909	1928	1125
45°	1476	1506	1568	1647	1676	1138
55°	1128	1166	1264	1364	1397	1006
65°	757	821	950	1061	1102	751
75°	393	481	626	738	774	414
85°	83	162	209	224	224	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2394.2	2394.2	2394.2	2394.2	2394.2
2.5°	2394.2	2394.2	2382.3	2394.2	2394.2
5°	2384.7	2384.7	2375.2	2387.1	2389.4
7.5°	2368.0	2370.4	2360.9	2375.2	2377.5
10°	2344.2	2346.6	2341.8	2356.1	2358.5
12.5°	2315.7	2318.1	2318.1	2334.7	2337.1
15°	2280.0	2282.4	2284.7	2306.2	2308.5
17.5°	2234.8	2241.9	2246.7	2272.8	2277.6
20°	2187.2	2194.3	2203.8	2232.4	2237.1
22.5°	2132.4	2141.9	2158.6	2189.5	2196.7
25°	2075.3	2084.8	2106.2	2141.9	2149.1
27.5°	2011.0	2025.3	2051.5	2089.6	2099.1
30°	1944.4	1958.7	1989.6	2030.1	2044.4
32.5°	1873.0	1892.0	1927.7	1973.0	1987.2
35°	1799.2	1820.6	1858.7	1908.7	1927.7
37.5°	1720.7	1744.5	1789.7	1844.4	1868.2
40°	1639.8	1668.3	1715.9	1780.2	1806.4
42.5°	1558.9	1585.0	1644.5	1713.5	1742.1
45°	1475.6	1506.5	1568.4	1646.9	1675.5
47.5°	1389.9	1420.8	1494.6	1577.9	1604.1
50°	1304.2	1335.1	1418.4	1506.5	1537.4
52.5°	1211.4	1251.8	1347.0	1435.1	1466.0
55°	1128.1	1166.2	1263.7	1363.7	1397.0
57.5°	1032.9	1078.1	1185.2	1289.9	1325.6
60°	944.8	992.4	1106.7	1213.8	1249.5
62.5°	854.4	906.8	1028.1	1137.6	1178.1
65°	756.8	821.1	949.6	1061.4	1101.9
67.5°	668.8	735.4	871.1	985.3	1021.0
70°	568.8	649.7	787.8	902.0	942.5
72.5°	483.1	564.0	709.2	821.1	861.5
75°	392.7	480.7	625.9	737.8	773.5
77.5°	302.3	399.8	545.0	630.7	642.6
80°	216.6	318.9	452.2	502.2	518.8
82.5°	152.3	245.1	333.2	366.5	376.0
85°	83.3	161.8	209.4	223.7	223.7
87.5°	35.7	69.0	83.3	85.7	88.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)