

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: P275939

Luminaire Tested: **24CZ2-75HE-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275939
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-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: 7487.0 lumens
Efficiency: N/A
Efficacy: 125.4 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

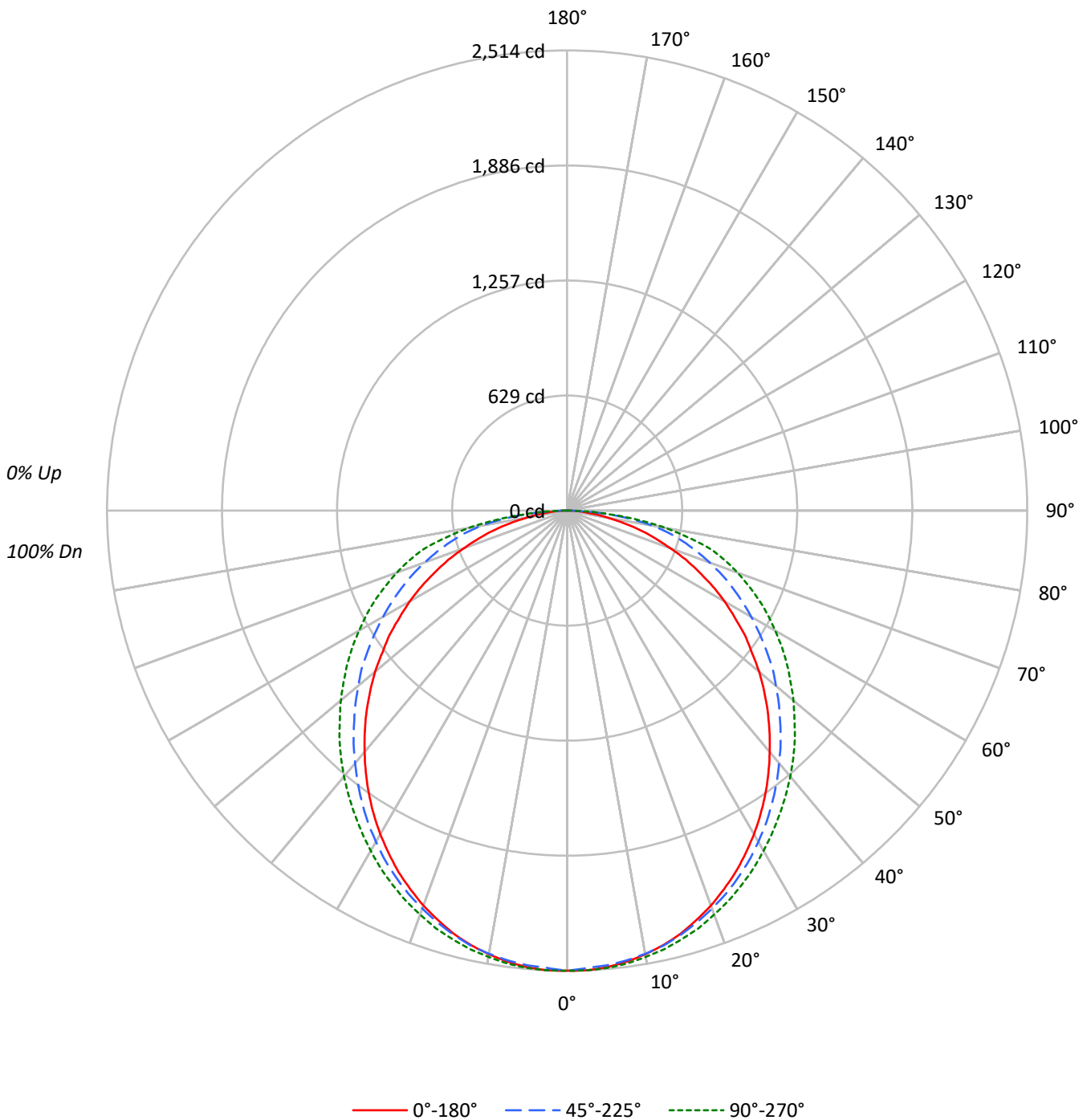
Input Watts (W): 59.706
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3382	3382	3382
5°	3382	3368	3388
10°	3363	3359	3383
15°	3334	3341	3376
20°	3288	3313	3363
25°	3235	3283	3350
30°	3172	3245	3335
35°	3103	3205	3324
40°	3024	3164	3331
45°	2948	3133	3347
50°	2866	3117	3379
55°	2778	3112	3441
60°	2669	3127	3530
65°	2530	3174	3683
70°	2349	3254	3893
75°	2143	3417	4222
80°	1762	3679	4221
85°	1351	3395	3626



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.7	3.2
10°-20°	678.7	9.1
20°-30°	1021.4	13.6
30°-40°	1224.0	16.3
40°-50°	1275.5	17.0
50°-60°	1186.7	15.9
60°-70°	977.4	13.1
70°-80°	665.7	8.9
80°-90°	219.8	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°	1937.8	25.9
0°-40°	3161.8	42.2
0°-60°	5624.1	75.1
0°-90°	7487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2514	2514	2514	2514	2514	
5°	2504	2504	2494	2506	2509	238
15°	2394	2396	2399	2421	2424	674
25°	2179	2189	2211	2249	2256	1003
35°	1889	1912	1952	2004	2024	1181
45°	1549	1582	1647	1729	1759	1195
55°	1184	1224	1327	1432	1467	1056
65°	795	862	997	1114	1157	789
75°	412	505	657	775	812	435
85°	88	170	220	235	235	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2513.7	2513.7	2513.7	2513.7	2513.7
2.5°	2513.7	2513.7	2501.2	2513.7	2513.7
5°	2503.7	2503.7	2493.7	2506.2	2508.7
7.5°	2486.2	2488.7	2478.8	2493.7	2496.2
10°	2461.3	2463.8	2458.8	2473.8	2476.3
12.5°	2431.3	2433.8	2433.8	2451.3	2453.8
15°	2393.8	2396.3	2398.8	2421.3	2423.8
17.5°	2346.3	2353.8	2358.8	2386.3	2391.3
20°	2296.3	2303.8	2313.8	2343.8	2348.8
22.5°	2238.9	2248.9	2266.4	2298.8	2306.3
25°	2178.9	2188.9	2211.4	2248.9	2256.4
27.5°	2111.4	2126.4	2153.9	2193.9	2203.9
30°	2041.5	2056.5	2088.9	2131.4	2146.4
32.5°	1966.5	1986.5	2024.0	2071.5	2086.4
35°	1889.0	1911.5	1951.5	2004.0	2024.0
37.5°	1806.6	1831.6	1879.1	1936.5	1961.5
40°	1721.6	1751.6	1801.6	1869.1	1896.5
42.5°	1636.7	1664.2	1726.6	1799.1	1829.1
45°	1549.2	1581.7	1646.7	1729.1	1759.1
47.5°	1459.3	1491.7	1569.2	1656.7	1684.2
50°	1369.3	1401.8	1489.3	1581.7	1614.2
52.5°	1271.9	1314.3	1414.3	1506.7	1539.2
55°	1184.4	1224.4	1326.8	1431.8	1466.8
57.5°	1084.5	1131.9	1244.4	1354.3	1391.8
60°	992.0	1042.0	1161.9	1274.4	1311.8
62.5°	897.0	952.0	1079.5	1194.4	1236.9
65°	794.6	862.1	997.0	1114.4	1156.9
67.5°	702.1	772.1	914.5	1034.5	1072.0
70°	597.2	682.2	827.1	947.0	989.5
72.5°	507.2	592.2	744.6	862.1	904.5
75°	412.3	504.7	657.2	774.6	812.1
77.5°	317.3	419.8	572.2	662.2	674.7
80°	227.4	334.8	474.8	527.2	544.7
82.5°	159.9	257.4	349.8	384.8	394.8
85°	87.5	169.9	219.9	234.9	234.9
87.5°	37.5	72.5	87.5	90.0	92.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)