

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: P276016

Luminaire Tested: **24CZ2-75HE-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276016
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-L93050-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6660.3 lumens
Efficiency: N/A
Efficacy: 109.4 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

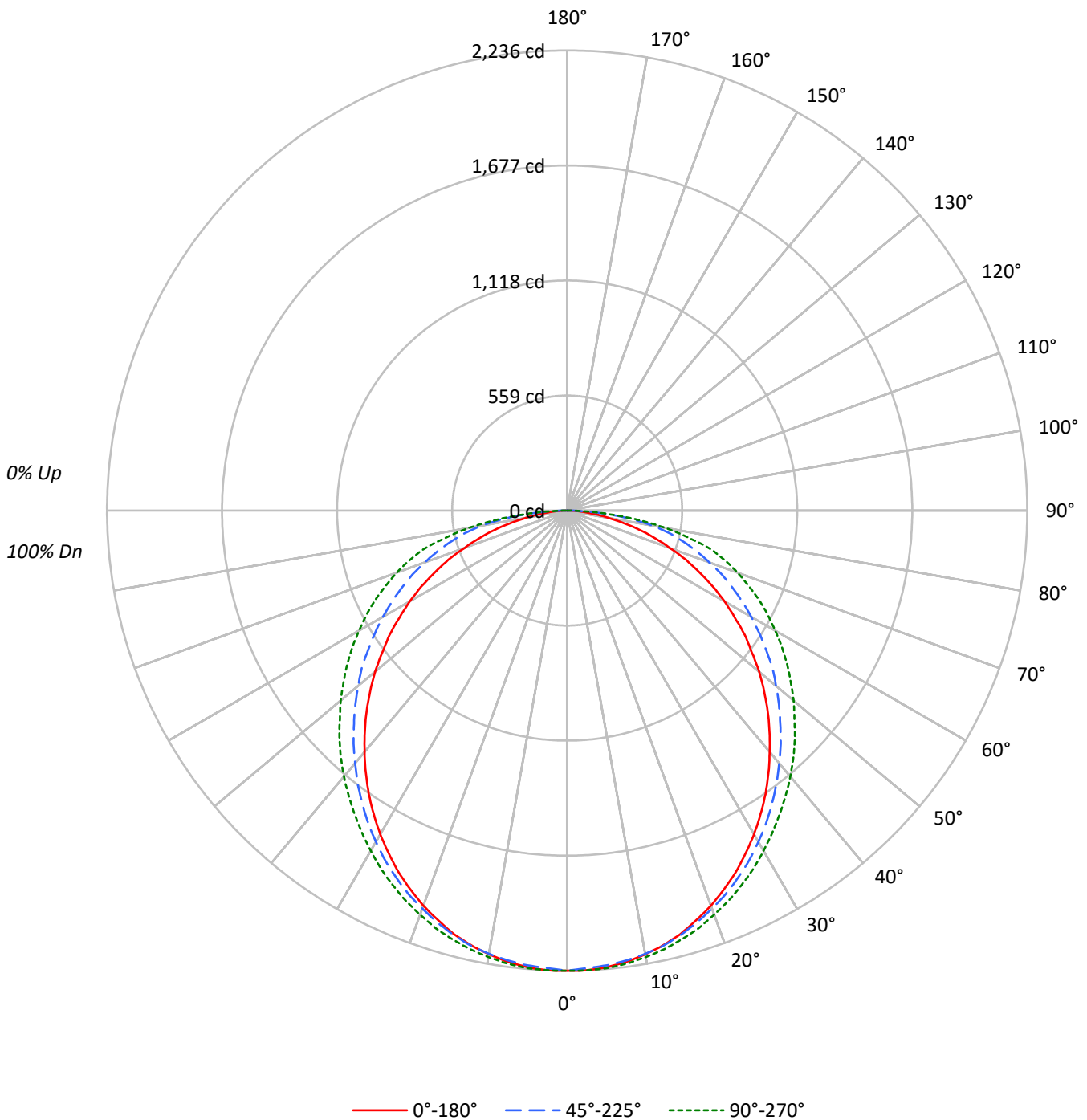
Input Watts (W): 60.856968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3009	3009	3009
5°	3008	2996	3014
10°	2991	2988	3010
15°	2966	2972	3003
20°	2925	2947	2992
25°	2878	2920	2980
30°	2822	2887	2967
35°	2760	2851	2957
40°	2690	2815	2963
45°	2622	2787	2978
50°	2550	2773	3006
55°	2472	2769	3061
60°	2375	2781	3140
65°	2251	2824	3277
70°	2090	2895	3463
75°	1907	3039	3755
80°	1567	3272	3755
85°	1201	3020	3225



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.5	3.2
10°-20°	603.8	9.1
20°-30°	908.6	13.6
30°-40°	1088.9	16.3
40°-50°	1134.7	17.0
50°-60°	1055.7	15.9
60°-70°	869.5	13.1
70°-80°	592.2	8.9
80°-90°	195.5	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°	1723.9	25.9
0°-40°	2812.7	42.2
0°-60°	5003.1	75.1
0°-90°	6660.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6660.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2236	2236	2236	2236	2236	
5°	2227	2227	2218	2230	2232	211
15°	2130	2132	2134	2154	2156	600
25°	1938	1947	1967	2001	2007	892
35°	1680	1700	1736	1783	1800	1050
45°	1378	1407	1465	1538	1565	1063
55°	1054	1089	1180	1274	1305	939
65°	707	767	887	991	1029	702
75°	367	449	585	689	722	387
85°	78	151	196	209	209	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2236.2	2236.2	2236.2	2236.2	2236.2
2.5°	2236.2	2236.2	2225.1	2236.2	2236.2
5°	2227.3	2227.3	2218.4	2229.5	2231.7
7.5°	2211.7	2213.9	2205.1	2218.4	2220.6
10°	2189.5	2191.7	2187.3	2200.6	2202.8
12.5°	2162.8	2165.0	2165.0	2180.6	2182.8
15°	2129.5	2131.7	2133.9	2153.9	2156.2
17.5°	2087.2	2093.9	2098.4	2122.8	2127.3
20°	2042.8	2049.5	2058.3	2085.0	2089.5
22.5°	1991.7	2000.6	2016.1	2045.0	2051.7
25°	1938.3	1947.2	1967.2	2000.6	2007.2
27.5°	1878.3	1891.6	1916.1	1951.7	1960.5
30°	1816.1	1829.4	1858.3	1896.1	1909.4
32.5°	1749.4	1767.2	1800.5	1842.7	1856.1
35°	1680.5	1700.5	1736.0	1782.7	1800.5
37.5°	1607.1	1629.3	1671.6	1722.7	1744.9
40°	1531.5	1558.2	1602.7	1662.7	1687.1
42.5°	1456.0	1480.4	1536.0	1600.4	1627.1
45°	1378.2	1407.1	1464.8	1538.2	1564.9
47.5°	1298.1	1327.0	1395.9	1473.7	1498.2
50°	1218.1	1247.0	1324.8	1407.1	1436.0
52.5°	1131.4	1169.2	1258.1	1340.4	1369.3
55°	1053.6	1089.2	1180.3	1273.7	1304.8
57.5°	964.7	1006.9	1107.0	1204.8	1238.1
60°	882.5	926.9	1033.6	1133.6	1167.0
62.5°	798.0	846.9	960.3	1062.5	1100.3
65°	706.9	766.9	886.9	991.4	1029.2
67.5°	624.6	686.9	813.6	920.3	953.6
70°	531.3	606.8	735.8	842.5	880.2
72.5°	451.2	526.8	662.4	766.9	804.7
75°	366.8	449.0	584.6	689.1	722.4
77.5°	282.3	373.4	509.0	589.1	600.2
80°	202.3	297.9	422.3	469.0	484.6
82.5°	142.3	229.0	311.2	342.3	351.2
85°	77.8	151.2	195.6	208.9	208.9
87.5°	33.3	64.5	77.8	80.0	82.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)