

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: P276262

Luminaire Tested: **24CZ2-75HE-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276262
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-L92765-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6461.2 lumens
Efficiency: N/A
Efficacy: 108.6 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

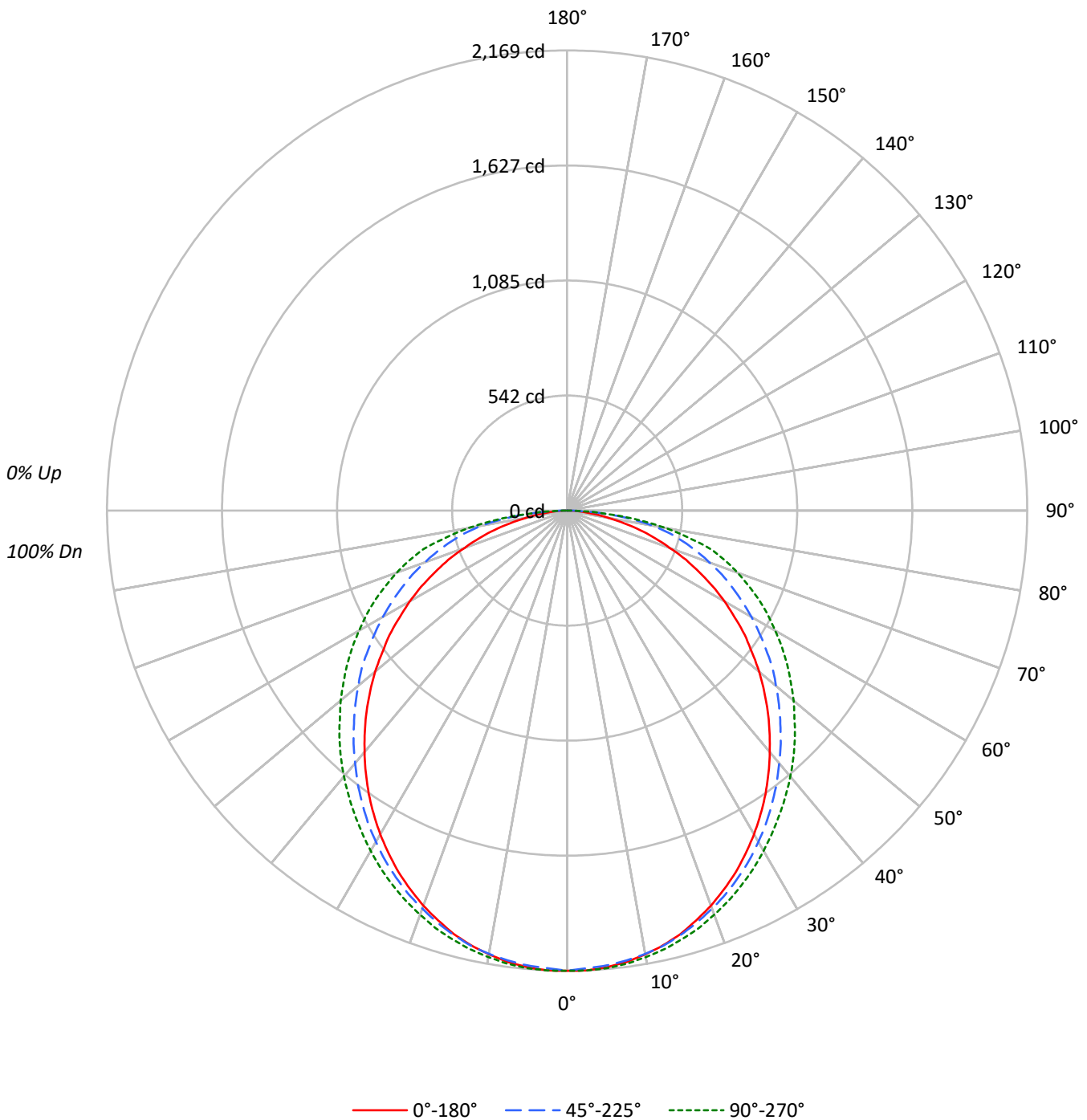
Input Watts (W): 59.52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2919	2919	2919
5°	2918	2907	2924
10°	2902	2899	2920
15°	2878	2884	2914
20°	2837	2859	2902
25°	2792	2833	2891
30°	2737	2801	2878
35°	2678	2766	2869
40°	2610	2731	2875
45°	2544	2704	2889
50°	2474	2690	2916
55°	2398	2686	2969
60°	2304	2698	3046
65°	2183	2739	3179
70°	2028	2808	3359
75°	1850	2948	3643
80°	1520	3175	3643
85°	1166	2930	3129



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.2	3.2
10°-20°	585.7	9.1
20°-30°	881.4	13.6
30°-40°	1056.3	16.3
40°-50°	1100.8	17.0
50°-60°	1024.1	15.9
60°-70°	843.5	13.1
70°-80°	574.5	8.9
80°-90°	189.7	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°	1672.3	25.9
0°-40°	2728.6	42.2
0°-60°	4853.5	75.1
0°-90°	6461.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6461.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2169	2169	2169	2169	2169	
5°	2161	2161	2152	2163	2165	205
15°	2066	2068	2070	2090	2092	582
25°	1880	1889	1908	1941	1947	866
35°	1630	1650	1684	1729	1747	1019
45°	1337	1365	1421	1492	1518	1031
55°	1022	1057	1145	1236	1266	911
65°	686	744	860	962	998	681
75°	356	436	567	668	701	375
85°	76	147	190	203	203	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2169.3	2169.3	2169.3	2169.3	2169.3
2.5°	2169.3	2169.3	2158.5	2169.3	2169.3
5°	2160.7	2160.7	2152.1	2162.8	2165.0
7.5°	2145.6	2147.8	2139.1	2152.1	2154.2
10°	2124.0	2126.2	2121.9	2134.8	2137.0
12.5°	2098.2	2100.3	2100.3	2115.4	2117.6
15°	2065.8	2068.0	2070.1	2089.5	2091.7
17.5°	2024.8	2031.3	2035.6	2059.3	2063.7
20°	1981.7	1988.2	1996.8	2022.7	2027.0
22.5°	1932.1	1940.7	1955.8	1983.9	1990.3
25°	1880.4	1889.0	1908.4	1940.7	1947.2
27.5°	1822.1	1835.1	1858.8	1893.3	1901.9
30°	1761.8	1774.7	1802.7	1839.4	1852.3
32.5°	1697.1	1714.3	1746.7	1787.6	1800.6
35°	1630.2	1649.6	1684.1	1729.4	1746.7
37.5°	1559.1	1580.6	1621.6	1671.2	1692.8
40°	1485.7	1511.6	1554.8	1613.0	1636.7
42.5°	1412.4	1436.1	1490.1	1552.6	1578.5
45°	1337.0	1365.0	1421.1	1492.2	1518.1
47.5°	1259.3	1287.4	1354.2	1429.7	1453.4
50°	1181.7	1209.7	1285.2	1365.0	1393.0
52.5°	1097.6	1134.3	1220.5	1300.3	1328.3
55°	1022.1	1056.6	1145.0	1235.6	1265.8
57.5°	935.9	976.8	1073.9	1168.8	1201.1
60°	856.1	899.2	1002.7	1099.8	1132.1
62.5°	774.1	821.6	931.6	1030.7	1067.4
65°	685.7	744.0	860.4	961.7	998.4
67.5°	605.9	666.3	789.2	892.7	925.1
70°	515.4	588.7	713.8	817.3	853.9
72.5°	437.7	511.1	642.6	744.0	780.6
75°	355.8	435.6	567.1	668.5	700.8
77.5°	273.9	362.3	493.8	571.4	582.2
80°	196.2	289.0	409.7	455.0	470.1
82.5°	138.0	222.1	301.9	332.1	340.7
85°	75.5	146.6	189.8	202.7	202.7
87.5°	32.3	62.5	75.5	77.6	79.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)