

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: P276854

Luminaire Tested: **24CZ2-75HE-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-75HE-RDP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4402.7 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

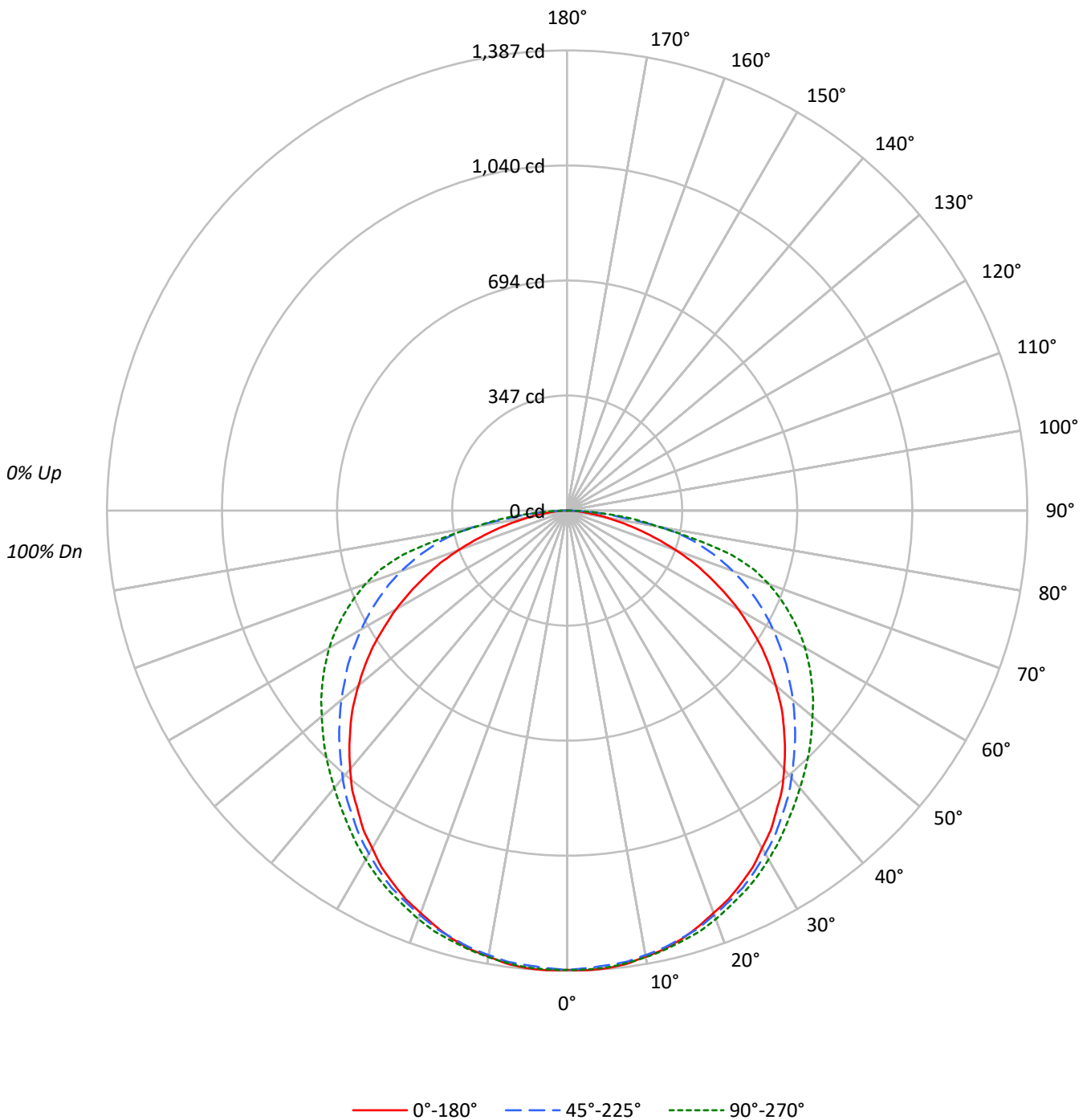
Input Watts (W): 59.922504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1863	1863	1863
5°	1870	1858	1867
10°	1865	1859	1868
15°	1862	1859	1871
20°	1848	1857	1876
25°	1841	1861	1880
30°	1825	1856	1886
35°	1808	1851	1894
40°	1788	1849	1918
45°	1758	1849	1961
50°	1719	1860	2020
55°	1675	1890	2111
60°	1604	1928	2227
65°	1502	1996	2364
70°	1366	2088	2543
75°	1158	2203	2656
80°	914	2217	2149
85°	675	1686	1888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	3.0
10°-20°	378.0	8.6
20°-30°	578.0	13.1
30°-40°	706.6	16.0
40°-50°	753.1	17.1
50°-60°	720.1	16.4
60°-70°	610.0	13.9
70°-80°	410.0	9.3
80°-90°	115.6	2.6
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°	1087.3	24.7
0°-40°	1794.0	40.7
0°-60°	3267.1	74.2
0°-90°	4402.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4402.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1384	1382	1376	1382	1382	132
15°	1336	1336	1334	1345	1343	377
25°	1240	1245	1254	1264	1267	572
35°	1101	1109	1127	1149	1153	689
45°	924	939	972	1013	1031	713
55°	714	740	806	869	900	636
65°	472	520	627	710	742	468
75°	223	304	424	496	511	238
85°	44	90	109	118	122	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1384.5	1384.5	1384.5	1384.5	1384.5
2.5°	1386.7	1386.7	1380.2	1384.5	1384.5
5°	1384.5	1382.4	1375.8	1382.4	1382.4
7.5°	1378.0	1375.8	1371.4	1378.0	1375.8
10°	1364.9	1364.9	1360.5	1367.1	1367.1
12.5°	1354.0	1351.8	1349.6	1358.3	1356.1
15°	1336.5	1336.5	1334.3	1345.2	1343.0
17.5°	1314.7	1316.8	1319.0	1327.8	1329.9
20°	1290.6	1295.0	1297.2	1310.3	1310.3
22.5°	1268.8	1271.0	1275.3	1288.4	1288.4
25°	1240.4	1244.8	1253.5	1264.4	1266.6
27.5°	1212.0	1214.2	1225.1	1240.4	1242.6
30°	1174.9	1181.4	1194.5	1212.0	1214.2
32.5°	1142.1	1148.7	1164.0	1181.4	1185.8
35°	1100.6	1109.4	1126.8	1148.7	1153.1
37.5°	1063.5	1070.1	1091.9	1115.9	1122.5
40°	1017.7	1030.8	1052.6	1081.0	1091.9
42.5°	971.8	984.9	1011.1	1048.2	1061.3
45°	923.8	939.0	971.8	1013.3	1030.8
47.5°	875.7	893.2	930.3	978.3	998.0
50°	821.1	843.0	888.8	943.4	965.2
52.5°	768.7	794.9	845.1	906.3	934.7
55°	714.1	740.3	805.8	869.2	899.7
57.5°	653.0	687.9	760.0	832.0	864.8
60°	596.2	628.9	716.3	794.9	827.7
62.5°	535.0	578.7	672.6	755.6	788.4
65°	471.7	519.7	626.8	709.7	742.5
67.5°	414.9	467.3	580.9	663.9	696.6
70°	347.2	412.7	530.7	613.7	646.4
72.5°	283.9	356.0	478.3	559.1	589.6
75°	222.7	303.5	423.7	495.7	511.0
77.5°	166.0	251.1	366.9	397.5	386.5
80°	117.9	200.9	286.1	270.8	277.3
82.5°	76.4	152.9	176.9	200.9	207.5
85°	43.7	89.5	109.2	117.9	122.3
87.5°	19.7	32.8	43.7	43.7	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)