

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: P276770

Luminaire Tested: **24CZ2-65HE-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276770
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: 24CZ2-65HE-RDP-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4408.0 lumens
Efficiency: N/A
Efficacy: 85.9 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

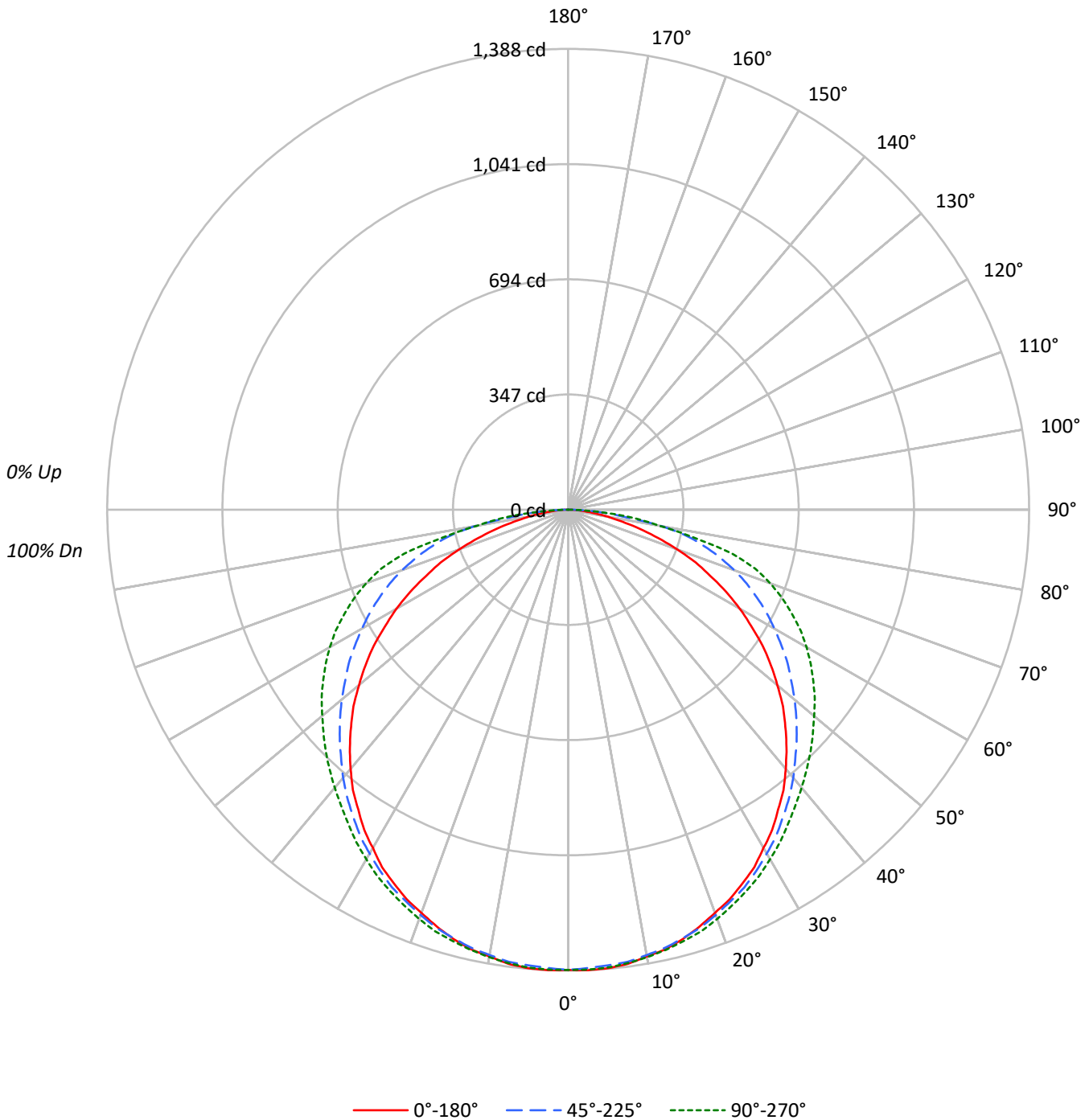
Input Watts (W): 51.314982
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1865	1865	1865
5°	1872	1860	1869
10°	1867	1861	1870
15°	1864	1861	1873
20°	1850	1860	1878
25°	1844	1863	1883
30°	1828	1858	1889
35°	1810	1853	1896
40°	1790	1851	1920
45°	1760	1851	1964
50°	1721	1863	2023
55°	1677	1893	2113
60°	1606	1930	2230
65°	1504	1998	2367
70°	1367	2090	2546
75°	1159	2205	2660
80°	915	2219	2152
85°	675	1687	1890



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	3.0
10°-20°	378.4	8.6
20°-30°	578.7	13.1
30°-40°	707.5	16.0
40°-50°	754.0	17.1
50°-60°	720.9	16.4
60°-70°	610.7	13.9
70°-80°	410.4	9.3
80°-90°	115.8	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°	1088.6	24.7
0°-40°	1796.1	40.7
0°-60°	3271.1	74.2
0°-90°	4408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4408.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1386	1384	1377	1384	1384	132
15°	1338	1338	1336	1347	1345	377
25°	1242	1246	1255	1266	1268	572
35°	1102	1111	1128	1150	1154	690
45°	925	940	973	1014	1032	713
55°	715	741	807	870	901	637
65°	472	520	628	711	743	469
75°	223	304	424	496	512	239
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°	1386.2	1386.2	1386.2	1386.2	1386.2
2.5°	1388.4	1388.4	1381.8	1386.2	1386.2
5°	1386.2	1384.0	1377.4	1384.0	1384.0
7.5°	1379.6	1377.4	1373.1	1379.6	1377.4
10°	1366.5	1366.5	1362.1	1368.7	1368.7
12.5°	1355.6	1353.4	1351.2	1360.0	1357.8
15°	1338.1	1338.1	1335.9	1346.8	1344.6
17.5°	1316.2	1318.4	1320.6	1329.3	1331.5
20°	1292.2	1296.5	1298.7	1311.9	1311.9
22.5°	1270.3	1272.5	1276.9	1290.0	1290.0
25°	1241.9	1246.3	1255.0	1265.9	1268.1
27.5°	1213.5	1215.6	1226.6	1241.9	1244.1
30°	1176.3	1182.9	1196.0	1213.5	1215.6
32.5°	1143.5	1150.1	1165.4	1182.9	1187.2
35°	1102.0	1110.7	1128.2	1150.1	1154.4
37.5°	1064.8	1071.3	1093.2	1117.3	1123.8
40°	1018.9	1032.0	1053.9	1082.3	1093.2
42.5°	973.0	986.1	1012.3	1049.5	1062.6
45°	924.9	940.2	973.0	1014.5	1032.0
47.5°	876.8	894.2	931.4	979.5	999.2
50°	822.1	844.0	889.9	944.5	966.4
52.5°	769.6	795.9	846.1	907.4	935.8
55°	715.0	741.2	806.8	870.2	900.8
57.5°	653.7	688.7	760.9	833.0	865.8
60°	596.9	629.7	717.1	795.9	828.7
62.5°	535.7	579.4	673.4	756.5	789.3
65°	472.3	520.4	627.5	710.6	743.4
67.5°	415.4	467.9	581.6	664.7	697.5
70°	347.6	413.2	531.3	614.4	647.2
72.5°	284.2	356.4	478.8	559.7	590.3
75°	223.0	303.9	424.2	496.3	511.6
77.5°	166.2	251.4	367.3	397.9	387.0
80°	118.1	201.2	286.4	271.1	277.7
82.5°	76.5	153.0	177.1	201.2	207.7
85°	43.7	89.6	109.3	118.1	122.4
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)