

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: P276952

Luminaire Tested: **24CZ2-65HE-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276952
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-L82765-W2A1-U-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4335.4 lumens
Efficiency: N/A
Efficacy: 86.2 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

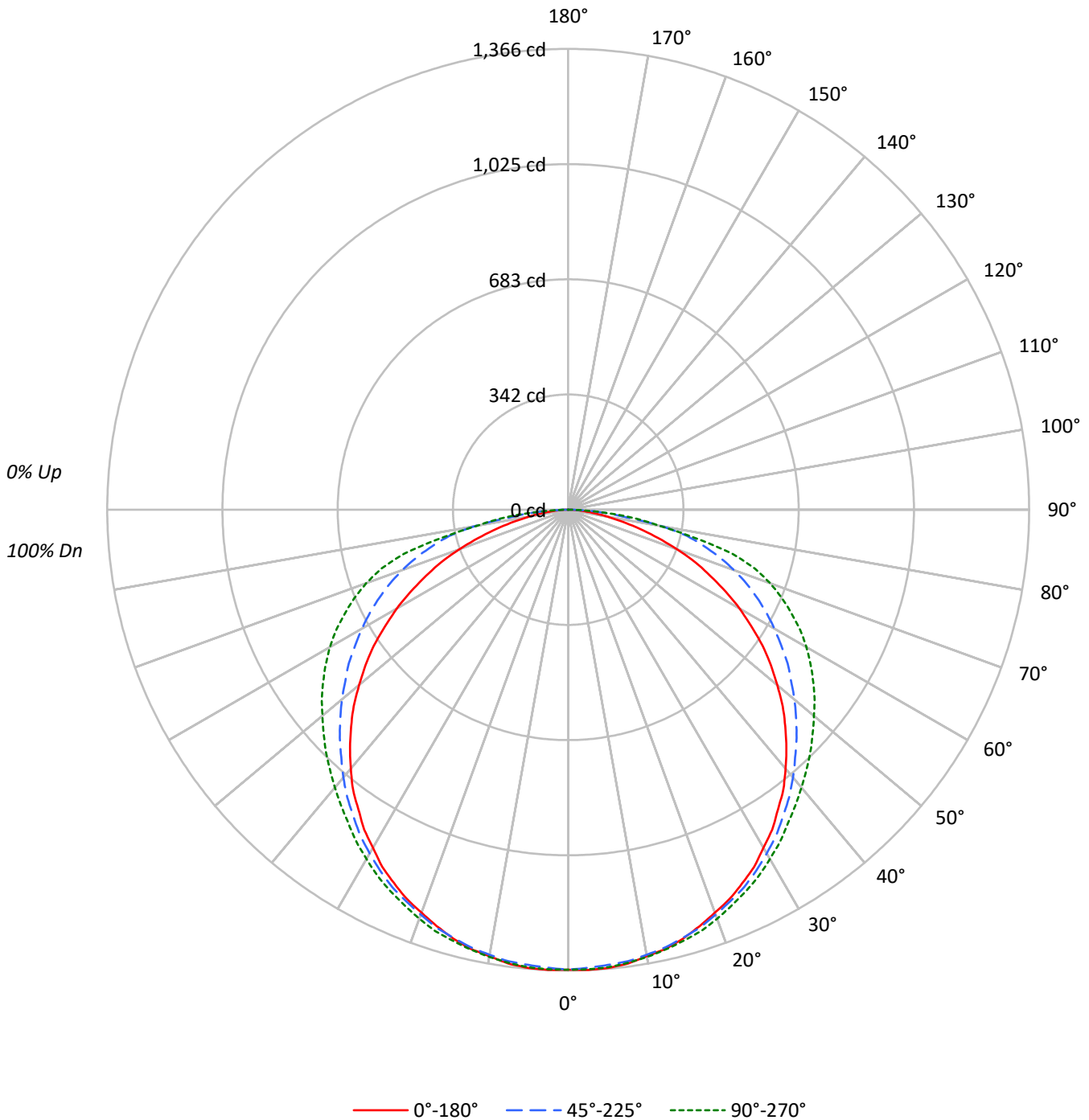
Input Watts (W): 50.313
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1834	1834	1834
5°	1841	1830	1838
10°	1836	1830	1839
15°	1833	1830	1842
20°	1820	1829	1847
25°	1813	1832	1852
30°	1797	1828	1858
35°	1780	1823	1865
40°	1760	1821	1888
45°	1731	1821	1931
50°	1692	1832	1990
55°	1650	1861	2078
60°	1580	1898	2193
65°	1479	1965	2328
70°	1345	2055	2504
75°	1140	2169	2616
80°	900	2183	2116
85°	664	1660	1859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	3.0
10°-20°	372.2	8.6
20°-30°	569.2	13.1
30°-40°	695.8	16.0
40°-50°	741.6	17.1
50°-60°	709.1	16.4
60°-70°	600.7	13.9
70°-80°	403.7	9.3
80°-90°	113.9	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°	1070.7	24.7
0°-40°	1766.5	40.7
0°-60°	3217.1	74.2
0°-90°	4335.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4335.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1363	1363	1363	1363	1363	
5°	1363	1361	1355	1361	1361	130
15°	1316	1316	1314	1325	1322	371
25°	1221	1226	1234	1245	1247	563
35°	1084	1092	1110	1131	1135	679
45°	910	925	957	998	1015	702
55°	703	729	794	856	886	626
65°	464	512	617	699	731	461
75°	219	299	417	488	503	235
85°	43	88	108	116	120	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.4	1363.4	1363.4	1363.4	1363.4
2.5°	1365.5	1365.5	1359.0	1363.4	1363.4
5°	1363.4	1361.2	1354.7	1361.2	1361.2
7.5°	1356.9	1354.7	1350.4	1356.9	1354.7
10°	1344.0	1344.0	1339.7	1346.1	1346.1
12.5°	1333.2	1331.1	1328.9	1337.5	1335.4
15°	1316.0	1316.0	1313.9	1324.6	1322.5
17.5°	1294.5	1296.7	1298.8	1307.4	1309.6
20°	1270.9	1275.2	1277.3	1290.2	1290.2
22.5°	1249.4	1251.5	1255.8	1268.7	1268.7
25°	1221.4	1225.7	1234.3	1245.1	1247.2
27.5°	1193.5	1195.6	1206.4	1221.4	1223.6
30°	1156.9	1163.4	1176.3	1193.5	1195.6
32.5°	1124.7	1131.1	1146.2	1163.4	1167.7
35°	1083.8	1092.4	1109.6	1131.1	1135.4
37.5°	1047.2	1053.7	1075.2	1098.9	1105.3
40°	1002.1	1015.0	1036.5	1064.4	1075.2
42.5°	956.9	969.8	995.6	1032.2	1045.1
45°	909.6	924.7	956.9	997.8	1015.0
47.5°	862.3	879.5	916.1	963.4	982.7
50°	808.5	830.1	875.2	929.0	950.5
52.5°	756.9	782.7	832.2	892.4	920.4
55°	703.2	729.0	793.5	855.9	886.0
57.5°	643.0	677.4	748.3	819.3	851.6
60°	587.1	619.3	705.3	782.7	815.0
62.5°	526.8	569.9	662.3	744.0	776.3
65°	464.5	511.8	617.2	698.9	731.1
67.5°	408.6	460.2	572.0	653.7	686.0
70°	341.9	406.4	522.5	604.3	636.5
72.5°	279.6	350.5	470.9	550.5	580.6
75°	219.3	298.9	417.2	488.1	503.2
77.5°	163.4	247.3	361.3	391.4	380.6
80°	116.1	197.8	281.7	266.6	273.1
82.5°	75.3	150.5	174.2	197.8	204.3
85°	43.0	88.2	107.5	116.1	120.4
87.5°	19.4	32.3	43.0	43.0	40.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)