

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: P276949

Luminaire Tested: **24CZ2-65HE-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276949
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-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: 4224.7 lumens
Efficiency: N/A
Efficacy: 84.8 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

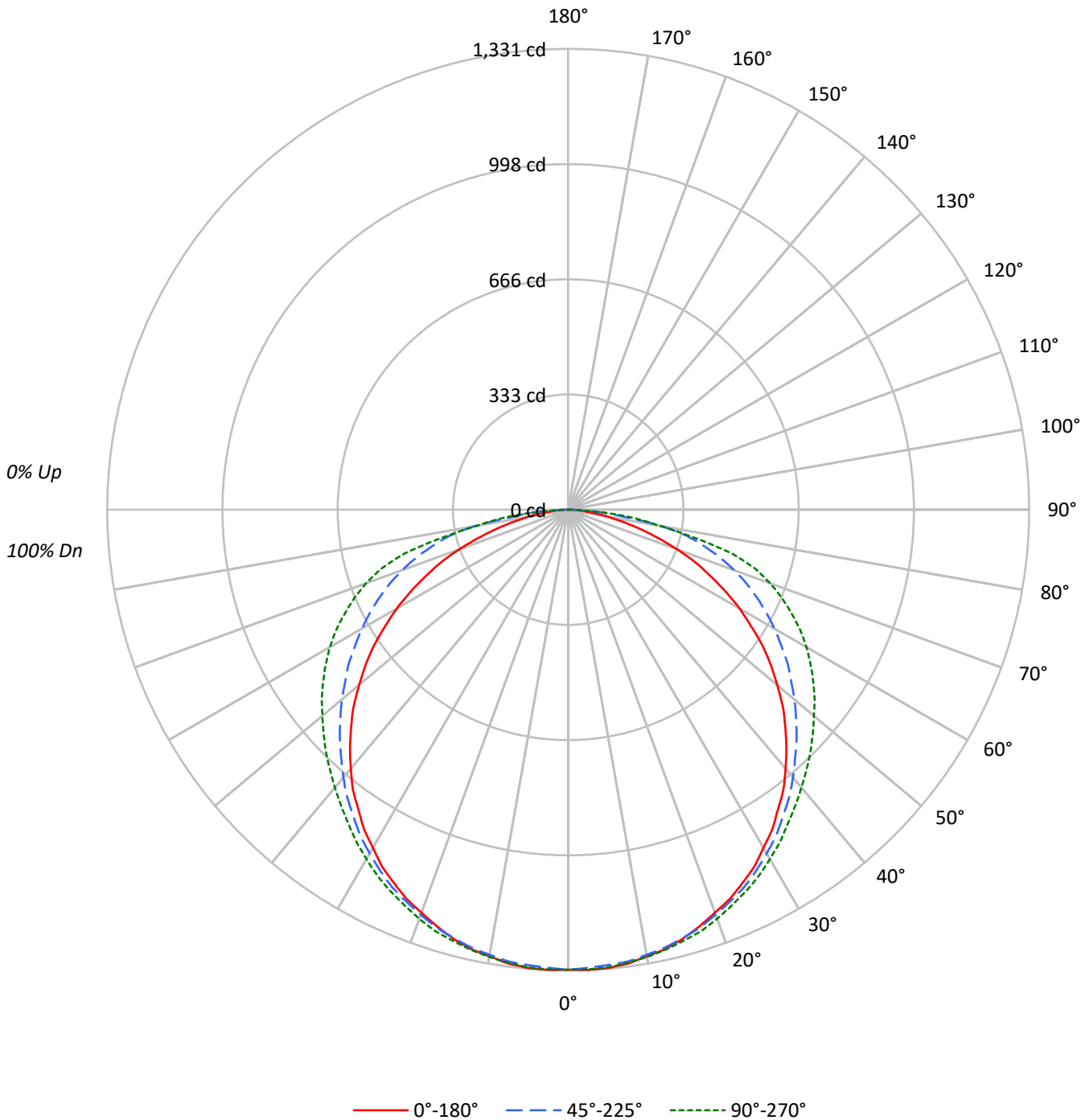
Input Watts (W): 49.848
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1787	1787	1787
5°	1794	1783	1791
10°	1789	1784	1792
15°	1786	1783	1795
20°	1773	1782	1800
25°	1767	1786	1804
30°	1752	1781	1810
35°	1735	1776	1817
40°	1715	1774	1840
45°	1687	1774	1882
50°	1649	1785	1939
55°	1607	1814	2025
60°	1540	1850	2137
65°	1441	1915	2268
70°	1311	2003	2440
75°	1111	2113	2549
80°	877	2127	2062
85°	647	1618	1811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	3.0
10°-20°	362.7	8.6
20°-30°	554.6	13.1
30°-40°	678.0	16.0
40°-50°	722.7	17.1
50°-60°	691.0	16.4
60°-70°	585.3	13.9
70°-80°	393.4	9.3
80°-90°	111.0	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°	1043.4	24.7
0°-40°	1721.4	40.7
0°-60°	3135.0	74.2
0°-90°	4224.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4224.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1328	1326	1320	1326	1326	126
15°	1282	1282	1280	1291	1289	362
25°	1190	1194	1203	1213	1215	549
35°	1056	1064	1081	1102	1106	662
45°	886	901	932	972	989	684
55°	685	710	773	834	863	610
65°	453	499	601	681	712	449
75°	214	291	406	476	490	229
85°	42	86	105	113	117	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1328.5	1328.5	1328.5	1328.5	1328.5
2.5°	1330.6	1330.6	1324.3	1328.5	1328.5
5°	1328.5	1326.4	1320.2	1326.4	1326.4
7.5°	1322.2	1320.2	1316.0	1322.2	1320.2
10°	1309.7	1309.7	1305.5	1311.8	1311.8
12.5°	1299.2	1297.1	1295.0	1303.4	1301.3
15°	1282.4	1282.4	1280.3	1290.8	1288.7
17.5°	1261.5	1263.6	1265.7	1274.1	1276.1
20°	1238.4	1242.6	1244.7	1257.3	1257.3
22.5°	1217.5	1219.6	1223.8	1236.3	1236.3
25°	1190.2	1194.4	1202.8	1213.3	1215.4
27.5°	1163.0	1165.1	1175.6	1190.2	1192.3
30°	1127.4	1133.7	1146.2	1163.0	1165.1
32.5°	1095.9	1102.2	1116.9	1133.7	1137.8
35°	1056.1	1064.5	1081.3	1102.2	1106.4
37.5°	1020.5	1026.8	1047.7	1070.8	1077.1
40°	976.5	989.1	1010.0	1037.3	1047.7
42.5°	932.5	945.1	970.2	1005.8	1018.4
45°	886.4	901.1	932.5	972.3	989.1
47.5°	840.3	857.1	892.7	938.8	957.6
50°	787.9	808.9	852.9	905.2	926.2
52.5°	737.6	762.8	811.0	869.6	896.9
55°	685.2	710.4	773.2	834.0	863.3
57.5°	626.5	660.1	729.2	798.4	829.8
60°	572.1	603.5	687.3	762.8	794.2
62.5°	513.4	555.3	645.4	725.0	756.5
65°	452.6	498.7	601.4	681.0	712.5
67.5°	398.1	448.4	557.4	637.0	668.5
70°	333.2	396.0	509.2	588.8	620.3
72.5°	272.4	341.6	458.9	536.4	565.8
75°	213.7	291.3	406.5	475.7	490.3
77.5°	159.3	241.0	352.0	381.4	370.9
80°	113.2	192.8	274.5	259.8	266.1
82.5°	73.3	146.7	169.7	192.8	199.1
85°	41.9	85.9	104.8	113.2	117.3
87.5°	18.9	31.4	41.9	41.9	39.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)