

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: P277086

Luminaire Tested: **24CZ2-65HE-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277086
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-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3903.4 lumens
Efficiency: N/A
Efficacy: 77.6 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

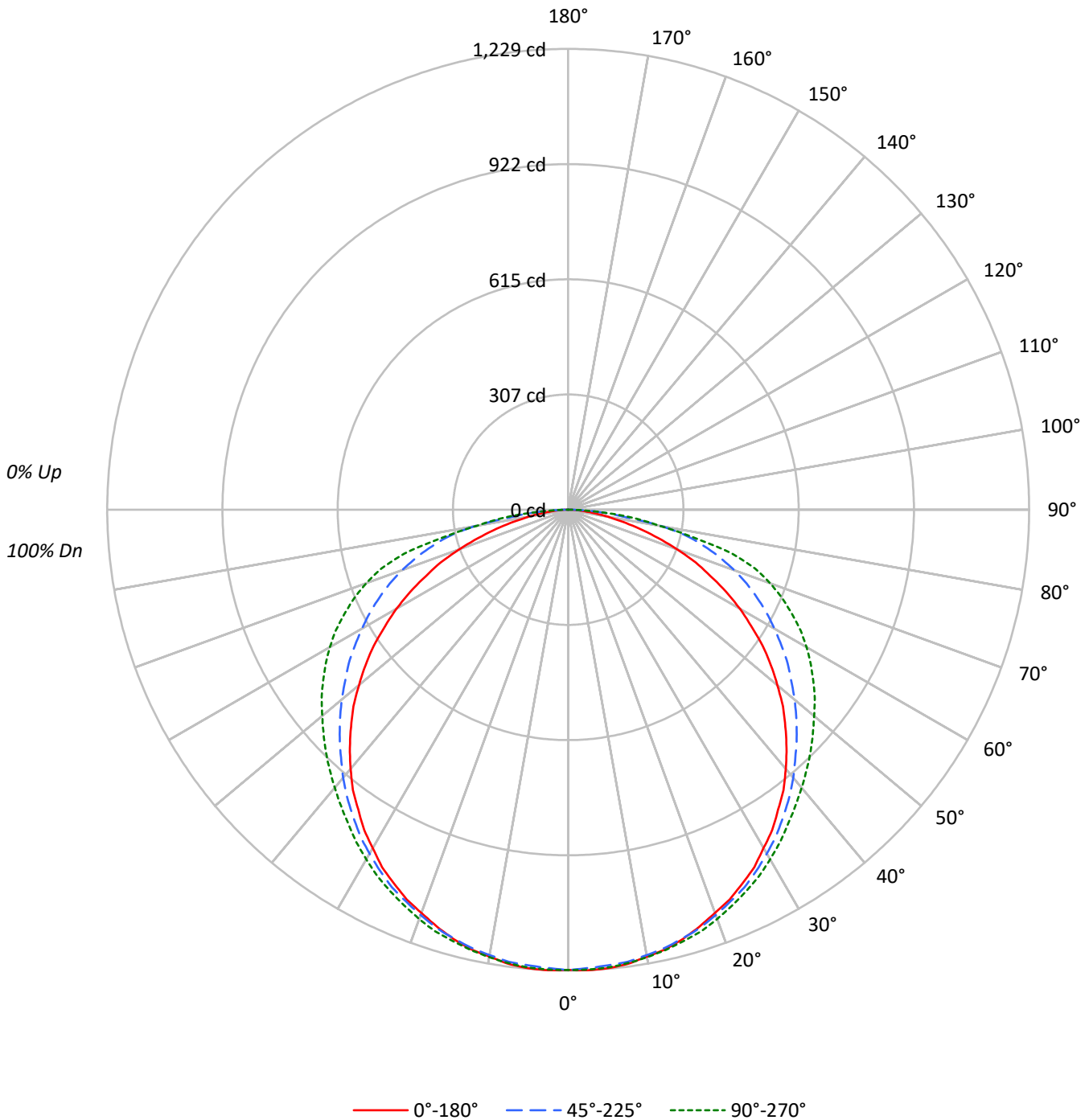
Input Watts (W): 50.313
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1652	1652	1652
5°	1658	1647	1655
10°	1653	1648	1656
15°	1651	1648	1659
20°	1638	1647	1663
25°	1633	1650	1667
30°	1618	1645	1672
35°	1603	1641	1679
40°	1585	1639	1700
45°	1558	1639	1739
50°	1524	1649	1791
55°	1485	1676	1871
60°	1422	1709	1975
65°	1331	1769	2096
70°	1211	1851	2255
75°	1027	1953	2355
80°	810	1965	1905
85°	597	1494	1673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	3.0
10°-20°	335.1	8.6
20°-30°	512.5	13.1
30°-40°	626.5	16.0
40°-50°	667.7	17.1
50°-60°	638.4	16.4
60°-70°	540.8	13.9
70°-80°	363.5	9.3
80°-90°	102.5	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°	964.0	24.7
0°-40°	1590.5	40.7
0°-60°	2896.6	74.2
0°-90°	3903.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3903.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1228	1228	1228	1228	1228	
5°	1228	1226	1220	1226	1226	117
15°	1185	1185	1183	1193	1191	334
25°	1100	1104	1111	1121	1123	507
35°	976	984	999	1018	1022	611
45°	819	832	862	898	914	632
55°	633	656	714	771	798	564
65°	418	461	556	629	658	415
75°	198	269	376	440	453	211
85°	39	79	97	105	108	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1227.5	1227.5	1227.5	1227.5	1227.5
2.5°	1229.4	1229.4	1223.6	1227.5	1227.5
5°	1227.5	1225.6	1219.8	1225.6	1225.6
7.5°	1221.7	1219.8	1215.9	1221.7	1219.8
10°	1210.1	1210.1	1206.2	1212.0	1212.0
12.5°	1200.4	1198.5	1196.5	1204.3	1202.3
15°	1184.9	1184.9	1183.0	1192.6	1190.7
17.5°	1165.5	1167.5	1169.4	1177.2	1179.1
20°	1144.2	1148.1	1150.1	1161.7	1161.7
22.5°	1124.9	1126.8	1130.7	1142.3	1142.3
25°	1099.7	1103.6	1111.3	1121.0	1122.9
27.5°	1074.5	1076.5	1086.2	1099.7	1101.6
30°	1041.6	1047.4	1059.1	1074.5	1076.5
32.5°	1012.6	1018.4	1031.9	1047.4	1051.3
35°	975.8	983.5	999.0	1018.4	1022.3
37.5°	942.9	948.7	968.1	989.4	995.2
40°	902.2	913.8	933.2	958.4	968.1
42.5°	861.6	873.2	896.4	929.3	941.0
45°	819.0	832.5	861.6	898.4	913.8
47.5°	776.4	791.9	824.8	867.4	884.8
50°	728.0	747.3	788.0	836.4	855.8
52.5°	681.5	704.7	749.3	803.5	828.7
55°	633.1	656.3	714.4	770.6	797.7
57.5°	578.9	609.9	673.8	737.7	766.7
60°	528.6	557.6	635.0	704.7	733.8
62.5°	474.3	513.1	596.3	669.9	698.9
65°	418.2	460.8	555.7	629.2	658.3
67.5°	367.9	414.3	515.0	588.6	617.6
70°	307.8	365.9	470.5	544.0	573.1
72.5°	251.7	315.6	424.0	495.6	522.8
75°	197.5	269.1	375.6	439.5	453.1
77.5°	147.1	222.7	325.3	352.4	342.7
80°	104.6	178.1	253.6	240.1	245.9
82.5°	67.8	135.5	156.8	178.1	183.9
85°	38.7	79.4	96.8	104.6	108.4
87.5°	17.4	29.0	38.7	38.7	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)