

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: P277087

Luminaire Tested: **24CZ2-65HE-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277087
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-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3920.5 lumens
Efficiency: N/A
Efficacy: 77.8 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

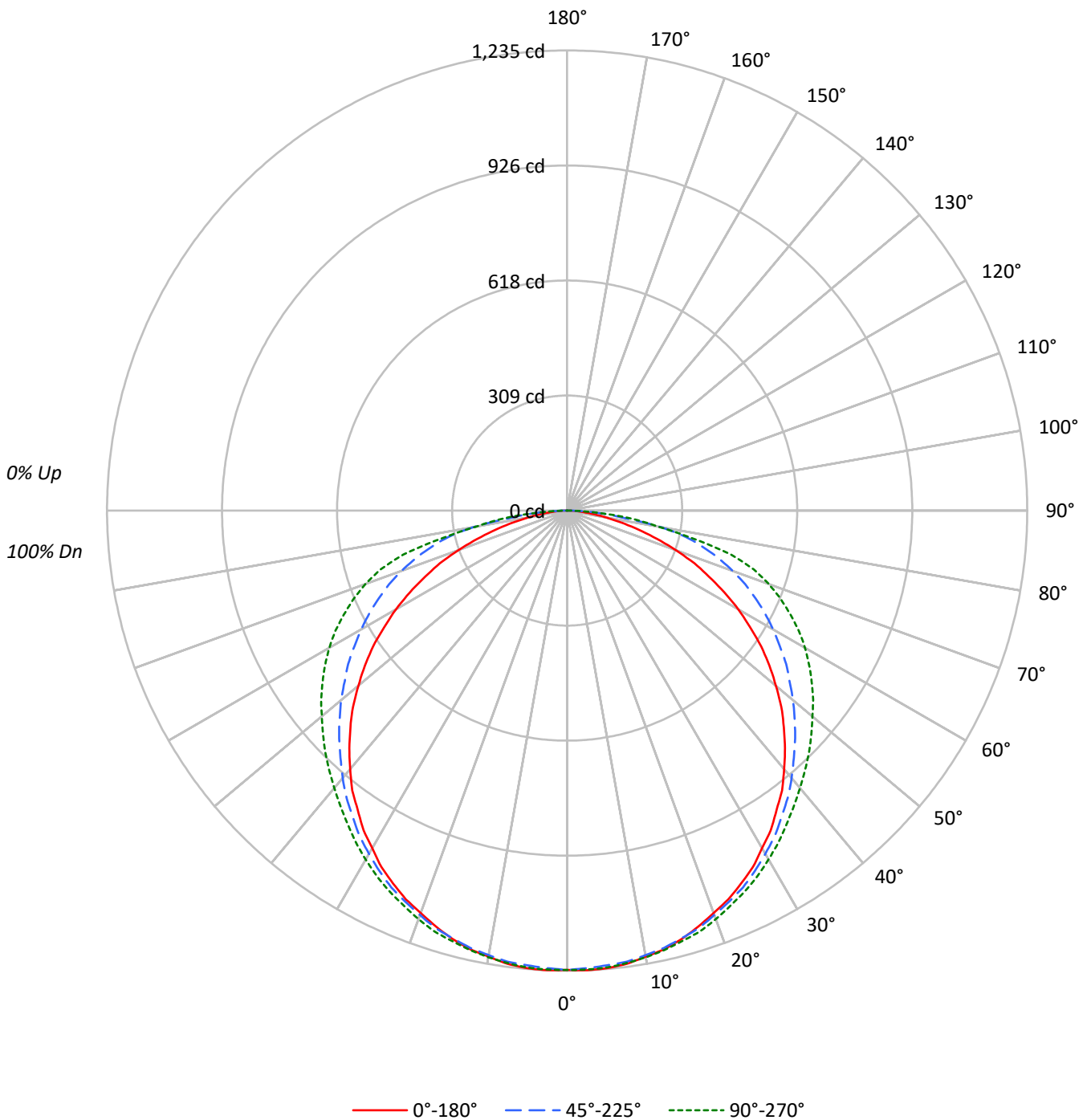
Input Watts (W): 50.406
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	68	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°	1659	1659	1659
5°	1665	1655	1663
10°	1661	1655	1663
15°	1658	1655	1666
20°	1646	1654	1671
25°	1640	1657	1674
30°	1625	1653	1680
35°	1610	1648	1687
40°	1592	1646	1708
45°	1565	1647	1747
50°	1531	1657	1799
55°	1492	1683	1879
60°	1429	1716	1983
65°	1337	1777	2105
70°	1216	1859	2264
75°	1031	1961	2365
80°	814	1974	1914
85°	601	1501	1681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	3.0
10°-20°	336.6	8.6
20°-30°	514.7	13.1
30°-40°	629.2	16.0
40°-50°	670.6	17.1
50°-60°	641.2	16.4
60°-70°	543.2	13.9
70°-80°	365.1	9.3
80°-90°	103.0	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°	968.2	24.7
0°-40°	1597.5	40.7
0°-60°	2909.3	74.2
0°-90°	3920.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3920.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1233	1233	1233	1233	1233	
5°	1233	1231	1225	1231	1231	117
15°	1190	1190	1188	1198	1196	336
25°	1105	1108	1116	1126	1128	509
35°	980	988	1003	1023	1027	614
45°	823	836	865	902	918	634
55°	636	659	718	774	801	566
65°	420	463	558	632	661	417
75°	198	270	377	441	455	212
85°	39	80	97	105	109	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1232.9	1232.9	1232.9	1232.9	1232.9
2.5°	1234.8	1234.8	1229.0	1232.9	1232.9
5°	1232.9	1231.0	1225.1	1231.0	1231.0
7.5°	1227.1	1225.1	1221.2	1227.1	1225.1
10°	1215.4	1215.4	1211.5	1217.3	1217.3
12.5°	1205.7	1203.7	1201.8	1209.6	1207.6
15°	1190.1	1190.1	1188.2	1197.9	1195.9
17.5°	1170.7	1172.6	1174.6	1182.3	1184.3
20°	1149.3	1153.2	1155.1	1166.8	1166.8
22.5°	1129.8	1131.8	1135.7	1147.3	1147.3
25°	1104.6	1108.4	1116.2	1125.9	1127.9
27.5°	1079.3	1081.2	1090.9	1104.6	1106.5
30°	1046.2	1052.0	1063.7	1079.3	1081.2
32.5°	1017.0	1022.9	1036.5	1052.0	1055.9
35°	980.1	987.9	1003.4	1022.9	1026.8
37.5°	947.0	952.9	972.3	993.7	999.5
40°	906.2	917.9	937.3	962.6	972.3
42.5°	865.4	877.0	900.4	933.4	945.1
45°	822.6	836.2	865.4	902.3	917.9
47.5°	779.8	795.4	828.4	871.2	888.7
50°	731.2	750.6	791.5	840.1	859.5
52.5°	684.5	707.8	752.6	807.0	832.3
55°	635.9	659.2	717.6	774.0	801.2
57.5°	581.4	612.6	676.7	740.9	770.1
60°	530.9	560.1	637.8	707.8	737.0
62.5°	476.4	515.3	598.9	672.8	702.0
65°	420.0	462.8	558.1	632.0	661.2
67.5°	369.5	416.2	517.3	591.2	620.3
70°	309.2	367.5	472.5	546.4	575.6
72.5°	252.8	317.0	425.9	497.8	525.1
75°	198.4	270.3	377.3	441.4	455.0
77.5°	147.8	223.6	326.7	353.9	344.2
80°	105.0	178.9	254.7	241.1	247.0
82.5°	68.1	136.1	157.5	178.9	184.7
85°	38.9	79.7	97.2	105.0	108.9
87.5°	17.5	29.2	38.9	38.9	36.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)