

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: P276946

Luminaire Tested: **24CZ2-65HE-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276946
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-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3926.3 lumens
Efficiency: N/A
Efficacy: 80.9 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

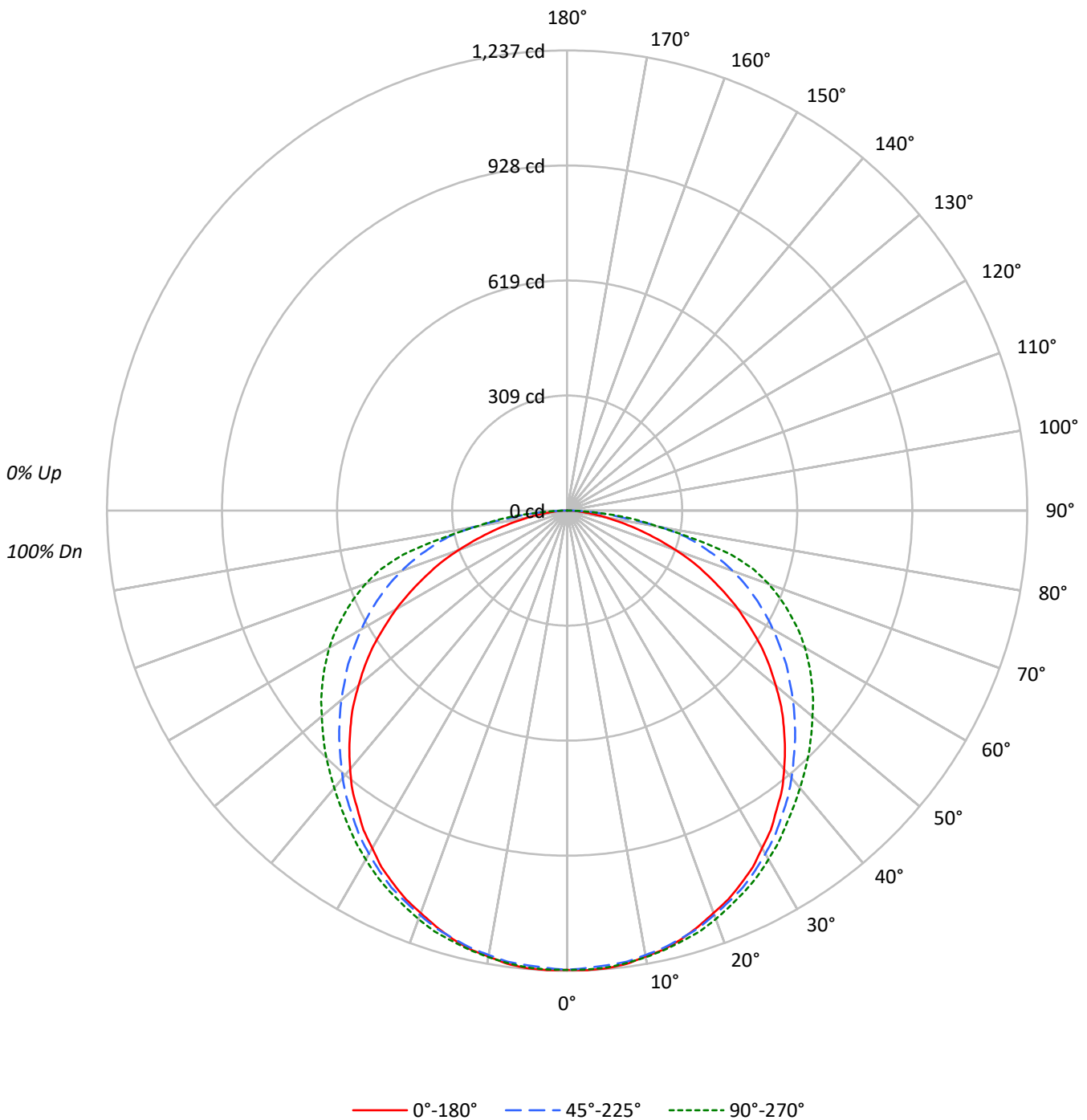
Input Watts (W): 48.546
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1661	1661	1661
5°	1668	1657	1665
10°	1663	1658	1666
15°	1660	1657	1668
20°	1648	1656	1673
25°	1642	1659	1677
30°	1628	1655	1682
35°	1612	1651	1689
40°	1594	1649	1710
45°	1568	1649	1749
50°	1533	1659	1802
55°	1494	1686	1882
60°	1431	1719	1986
65°	1339	1779	2108
70°	1218	1862	2268
75°	1032	1964	2369
80°	815	1977	1916
85°	601	1504	1684



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	3.0
10°-20°	337.1	8.6
20°-30°	515.5	13.1
30°-40°	630.1	16.0
40°-50°	671.6	17.1
50°-60°	642.2	16.4
60°-70°	544.0	13.9
70°-80°	365.6	9.3
80°-90°	103.1	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°	969.7	24.7
0°-40°	1599.8	40.7
0°-60°	2913.6	74.2
0°-90°	3926.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3926.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1235	1233	1227	1233	1233	117
15°	1192	1192	1190	1200	1198	336
25°	1106	1110	1118	1128	1130	510
35°	982	989	1005	1024	1028	615
45°	824	837	867	904	919	635
55°	637	660	719	775	802	567
65°	421	464	559	633	662	418
75°	199	271	378	442	456	213
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°	1234.7	1234.7	1234.7	1234.7	1234.7
2.5°	1236.6	1236.6	1230.8	1234.7	1234.7
5°	1234.7	1232.8	1226.9	1232.8	1232.8
7.5°	1228.9	1226.9	1223.0	1228.9	1226.9
10°	1217.2	1217.2	1213.3	1219.1	1219.1
12.5°	1207.4	1205.5	1203.5	1211.3	1209.4
15°	1191.9	1191.9	1189.9	1199.6	1197.7
17.5°	1172.4	1174.3	1176.3	1184.1	1186.0
20°	1151.0	1154.9	1156.8	1168.5	1168.5
22.5°	1131.5	1133.4	1137.3	1149.0	1149.0
25°	1106.2	1110.1	1117.8	1127.6	1129.5
27.5°	1080.8	1082.8	1092.5	1106.2	1108.1
30°	1047.7	1053.6	1065.3	1080.8	1082.8
32.5°	1018.5	1024.4	1038.0	1053.6	1057.5
35°	981.5	989.3	1004.9	1024.4	1028.3
37.5°	948.4	954.3	973.7	995.2	1001.0
40°	907.5	919.2	938.7	964.0	973.7
42.5°	866.6	878.3	901.7	934.8	946.5
45°	823.8	837.4	866.6	903.6	919.2
47.5°	780.9	796.5	829.6	872.5	890.0
50°	732.3	751.7	792.6	841.3	860.8
52.5°	685.5	708.9	753.7	808.2	833.5
55°	636.8	660.2	718.6	775.1	802.4
57.5°	582.3	613.5	677.7	742.0	771.2
60°	531.7	560.9	638.8	708.9	738.1
62.5°	477.1	516.1	599.8	673.8	703.0
65°	420.7	463.5	558.9	632.9	662.1
67.5°	370.0	416.8	518.0	592.0	621.2
70°	309.6	368.1	473.2	547.2	576.5
72.5°	253.2	317.4	426.5	498.6	525.8
75°	198.6	270.7	377.8	442.1	455.7
77.5°	148.0	224.0	327.2	354.4	344.7
80°	105.2	179.2	255.1	241.5	247.3
82.5°	68.2	136.3	157.7	179.2	185.0
85°	38.9	79.8	97.4	105.2	109.1
87.5°	17.5	29.2	38.9	38.9	37.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)