

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: P276947

Luminaire Tested: **24CZ2-65HE-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276947
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-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4061.8 lumens
Efficiency: N/A
Efficacy: 82.7 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

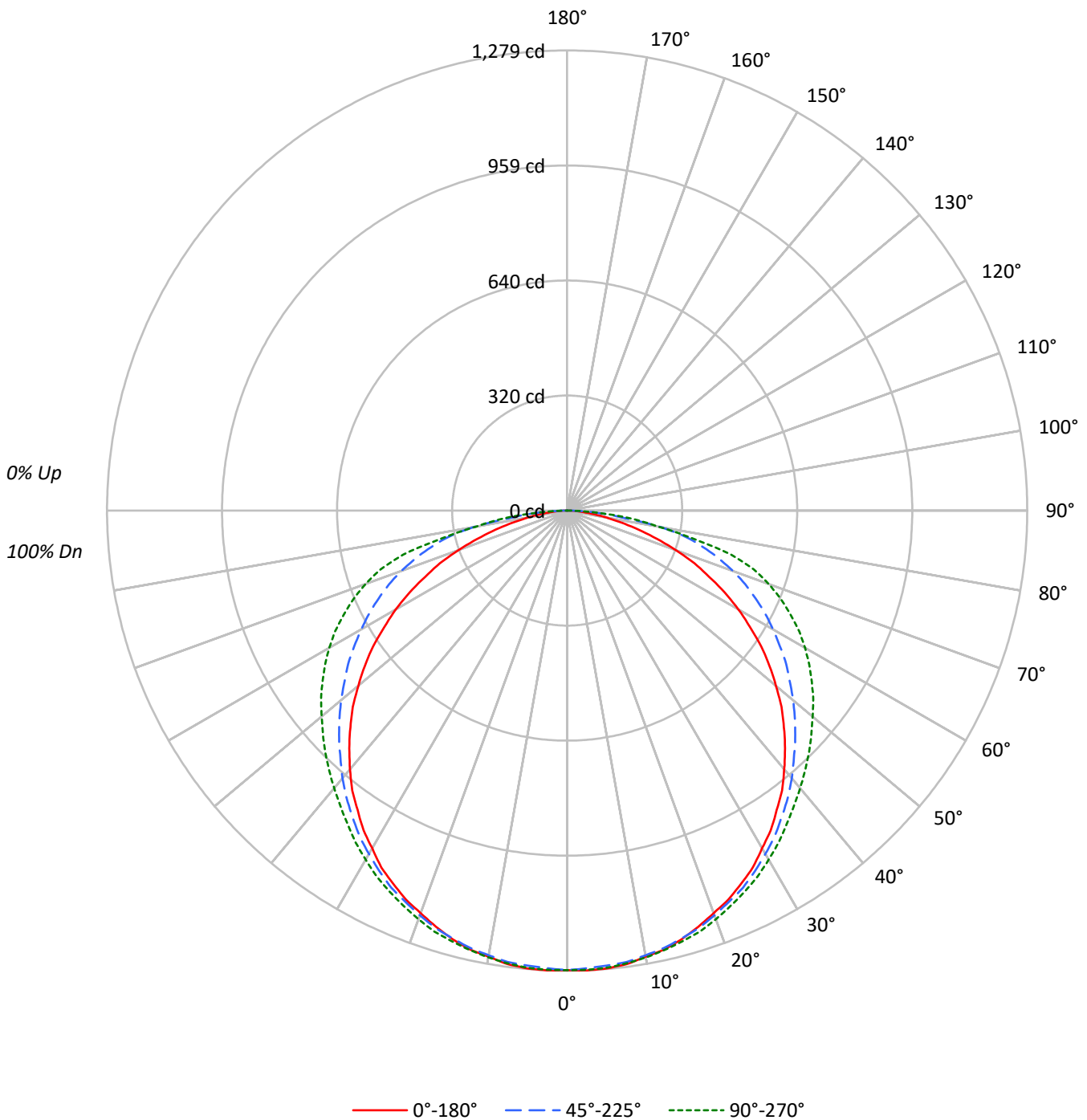
Input Watts (W): 49.104
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1719	1719	1719
5°	1725	1714	1722
10°	1720	1715	1723
15°	1718	1715	1726
20°	1705	1713	1731
25°	1699	1717	1735
30°	1684	1712	1740
35°	1668	1708	1747
40°	1649	1706	1769
45°	1622	1706	1809
50°	1586	1716	1864
55°	1545	1744	1947
60°	1480	1778	2055
65°	1386	1841	2181
70°	1260	1926	2346
75°	1068	2032	2451
80°	843	2045	1983
85°	622	1555	1741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	3.0
10°-20°	348.7	8.6
20°-30°	533.3	13.1
30°-40°	651.9	16.0
40°-50°	694.8	17.1
50°-60°	664.3	16.4
60°-70°	562.8	13.9
70°-80°	378.2	9.3
80°-90°	106.7	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°	1003.1	24.7
0°-40°	1655.0	40.7
0°-60°	3014.1	74.2
0°-90°	4061.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4061.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1277	1277	1277	1277	1277	
5°	1277	1275	1269	1275	1275	121
15°	1233	1233	1231	1241	1239	348
25°	1144	1148	1156	1166	1168	527
35°	1015	1024	1040	1060	1064	636
45°	852	866	896	935	951	657
55°	659	683	743	802	830	587
65°	435	480	578	655	685	432
75°	206	280	391	457	471	220
85°	40	83	101	109	113	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1277.3	1277.3	1277.3	1277.3	1277.3
2.5°	1279.3	1279.3	1273.3	1277.3	1277.3
5°	1277.3	1275.3	1269.3	1275.3	1275.3
7.5°	1271.3	1269.3	1265.2	1271.3	1269.3
10°	1259.2	1259.2	1255.2	1261.2	1261.2
12.5°	1249.1	1247.1	1245.1	1253.1	1251.1
15°	1233.0	1233.0	1231.0	1241.1	1239.0
17.5°	1212.8	1214.9	1216.9	1224.9	1226.9
20°	1190.7	1194.7	1196.7	1208.8	1208.8
22.5°	1170.5	1172.6	1176.6	1188.7	1188.7
25°	1144.3	1148.4	1156.4	1166.5	1168.5
27.5°	1118.2	1120.2	1130.2	1144.3	1146.4
30°	1083.9	1089.9	1102.0	1118.2	1120.2
32.5°	1053.7	1059.7	1073.8	1089.9	1094.0
35°	1015.4	1023.5	1039.6	1059.7	1063.8
37.5°	981.2	987.2	1007.3	1029.5	1035.6
40°	938.8	950.9	971.1	997.3	1007.3
42.5°	896.5	908.6	932.8	967.1	979.1
45°	852.2	866.3	896.5	934.8	950.9
47.5°	807.9	824.0	858.3	902.6	920.7
50°	757.5	777.7	820.0	870.3	890.5
52.5°	709.2	733.3	779.7	836.1	862.3
55°	658.8	683.0	743.4	801.8	830.1
57.5°	602.4	634.6	701.1	767.6	797.8
60°	550.0	580.2	660.8	733.3	763.6
62.5°	493.6	533.9	620.5	697.1	727.3
65°	435.2	479.5	578.2	654.8	685.0
67.5°	382.8	431.1	535.9	612.5	642.7
70°	320.3	380.8	489.6	566.1	596.3
72.5°	261.9	328.4	441.2	515.8	544.0
75°	205.5	280.0	390.9	457.3	471.4
77.5°	153.1	231.7	338.5	366.7	356.6
80°	108.8	185.4	263.9	249.8	255.9
82.5°	70.5	141.0	163.2	185.4	191.4
85°	40.3	82.6	100.7	108.8	112.8
87.5°	18.1	30.2	40.3	40.3	38.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)