

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: P275953

Luminaire Tested: **24CZ2-40-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-40-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3829.0 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

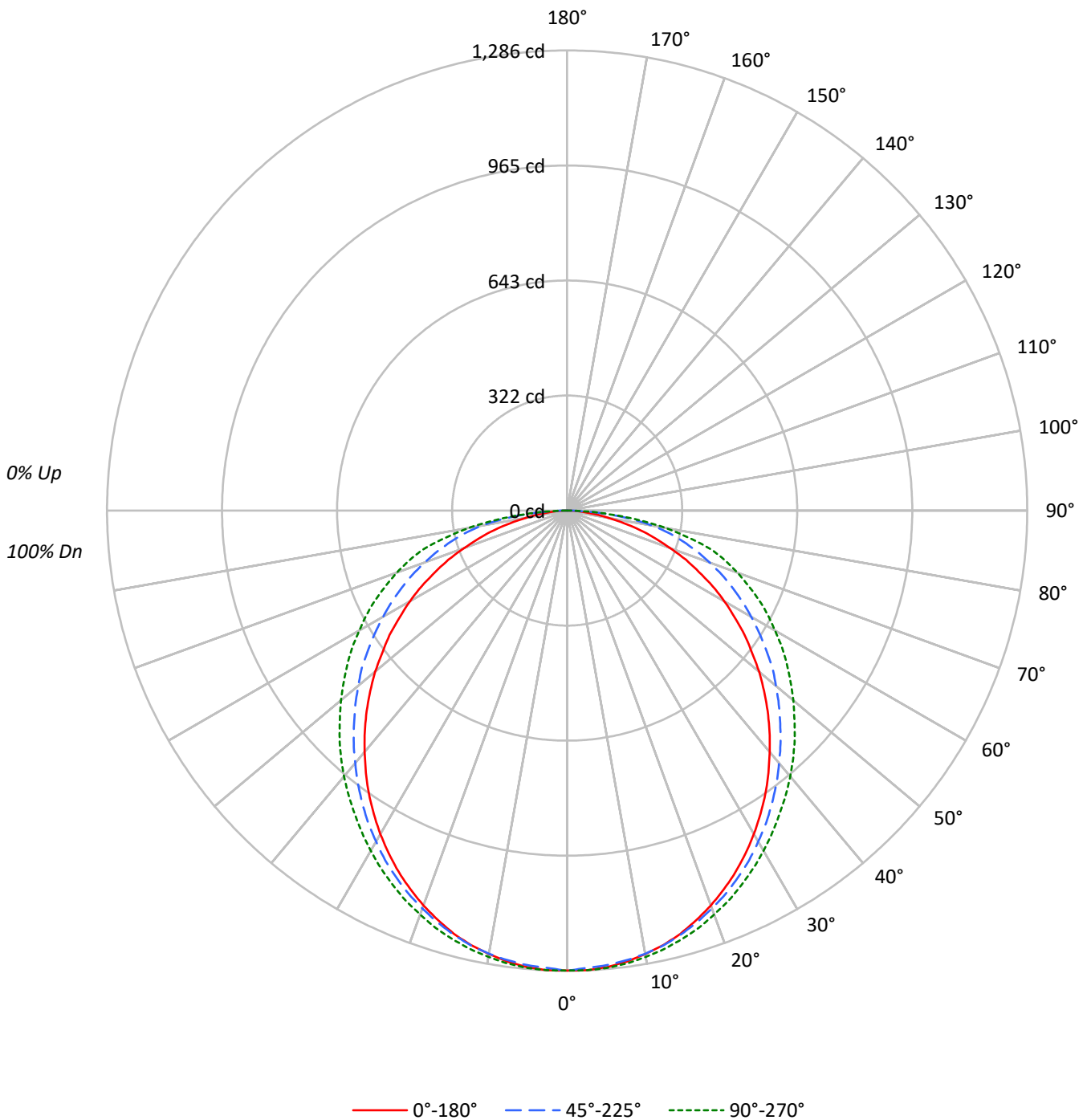
Input Watts (W): 30.411
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275953

CATALOG NUMBER: 24CZ2-40-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P275953

CATALOG NUMBER: 24CZ2-40-UNV-L83050-W2A1-U-3500K

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	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					100			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56					56			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48					48			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41					41			
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36					36			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32					32			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28					28			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25					25			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1730	1730	1730
5°	1729	1723	1733
10°	1720	1718	1730
15°	1705	1709	1727
20°	1682	1694	1720
25°	1654	1679	1713
30°	1622	1660	1705
35°	1587	1639	1700
40°	1547	1618	1704
45°	1508	1602	1712
50°	1466	1594	1728
55°	1421	1592	1760
60°	1365	1599	1805
65°	1294	1623	1884
70°	1201	1664	1991
75°	1096	1747	2159
80°	901	1881	2159
85°	690	1737	1854



TEST NUMBER: P275953

CATALOG NUMBER: 24CZ2-40-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	3.2
10°-20°	347.1	9.1
20°-30°	522.3	13.6
30°-40°	626.0	16.3
40°-50°	652.3	17.0
50°-60°	606.9	15.9
60°-70°	499.9	13.1
70°-80°	340.4	8.9
80°-90°	112.4	2.9
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°	991.0	25.9
0°-40°	1617.0	42.2
0°-60°	2876.3	75.1
0°-90°	3829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3829.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1286	1286	1286	1286	1286	
5°	1280	1280	1275	1282	1283	122
15°	1224	1226	1227	1238	1240	345
25°	1114	1119	1131	1150	1154	513
35°	966	978	998	1025	1035	604
45°	792	809	842	884	900	611
55°	606	626	679	732	750	540
65°	406	441	510	570	592	403
75°	211	258	336	396	415	222
85°	45	87	112	120	120	55
90°	0	0	0	0	0	



TEST NUMBER: P275953

CATALOG NUMBER: 24CZ2-40-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1285.6	1285.6	1285.6	1285.6	1285.6
2.5°	1285.6	1285.6	1279.2	1285.6	1285.6
5°	1280.5	1280.5	1275.4	1281.7	1283.0
7.5°	1271.5	1272.8	1267.7	1275.4	1276.6
10°	1258.7	1260.0	1257.5	1265.1	1266.4
12.5°	1243.4	1244.7	1244.7	1253.6	1254.9
15°	1224.2	1225.5	1226.8	1238.3	1239.6
17.5°	1200.0	1203.8	1206.3	1220.4	1223.0
20°	1174.4	1178.2	1183.3	1198.7	1201.2
22.5°	1145.0	1150.1	1159.1	1175.7	1179.5
25°	1114.3	1119.4	1130.9	1150.1	1153.9
27.5°	1079.8	1087.5	1101.6	1122.0	1127.1
30°	1044.0	1051.7	1068.3	1090.1	1097.7
32.5°	1005.7	1015.9	1035.1	1059.4	1067.1
35°	966.1	977.6	998.0	1024.9	1035.1
37.5°	923.9	936.7	961.0	990.4	1003.2
40°	880.5	895.8	921.4	955.9	969.9
42.5°	837.0	851.1	883.0	920.1	935.4
45°	792.3	808.9	842.1	884.3	899.6
47.5°	746.3	762.9	802.5	847.3	861.3
50°	700.3	716.9	761.6	808.9	825.5
52.5°	650.5	672.2	723.3	770.6	787.2
55°	605.7	626.2	678.6	732.2	750.1
57.5°	554.6	578.9	636.4	692.6	711.8
60°	507.3	532.9	594.2	651.7	670.9
62.5°	458.8	486.9	552.1	610.8	632.6
65°	406.4	440.9	509.9	569.9	591.7
67.5°	359.1	394.9	467.7	529.1	548.2
70°	305.4	348.9	423.0	484.3	506.1
72.5°	259.4	302.9	380.8	440.9	462.6
75°	210.9	258.1	336.1	396.2	415.3
77.5°	162.3	214.7	292.6	338.6	345.0
80°	116.3	171.2	242.8	269.6	278.6
82.5°	81.8	131.6	178.9	196.8	201.9
85°	44.7	86.9	112.5	120.1	120.1
87.5°	19.2	37.1	44.7	46.0	47.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)