

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: P260952

Luminaire Tested: **24CZ-LD5-40SE-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40SE-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3816.0 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

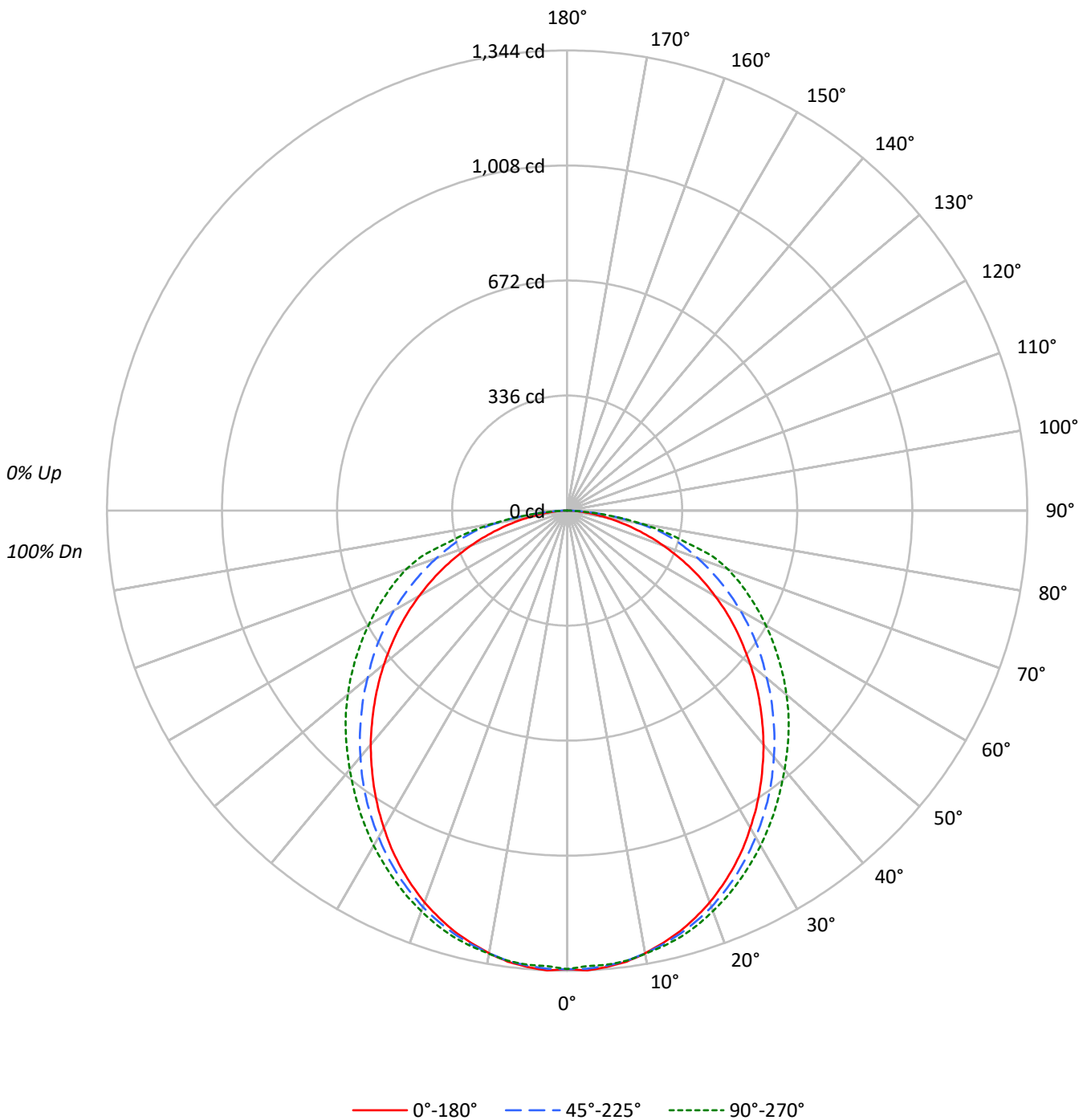
Input Watts (W): 31.341
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260952

CATALOG NUMBER: 24CZ-LD5-40SE-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P260952

CATALOG NUMBER: 24CZ-LD5-40SE-UNV-L92765-W2A1-U-5700K

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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1802	1802	1802
5°	1807	1802	1798
10°	1794	1794	1796
15°	1773	1782	1795
20°	1744	1764	1783
25°	1707	1740	1769
30°	1663	1711	1756
35°	1616	1682	1743
40°	1567	1650	1735
45°	1514	1619	1740
50°	1460	1592	1750
55°	1407	1582	1768
60°	1343	1572	1804
65°	1273	1572	1863
70°	1177	1598	1963
75°	1053	1671	1868
80°	881	1599	1711
85°	665	1230	1170



TEST NUMBER: P260952

CATALOG NUMBER: 24CZ-LD5-40SE-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	3.3
10°-20°	360.2	9.4
20°-30°	538.5	14.1
30°-40°	638.8	16.7
40°-50°	657.5	17.2
50°-60°	603.1	15.8
60°-70°	487.7	12.8
70°-80°	316.5	8.3
80°-90°	87.3	2.3
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°	1025.2	26.9
0°-40°	1664.0	43.6
0°-60°	2924.6	76.6
0°-90°	3816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3816.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1339	1339	1339	1339	1339	
5°	1338	1329	1334	1333	1331	127
15°	1273	1267	1279	1284	1288	358
25°	1150	1151	1172	1182	1192	529
35°	984	992	1024	1046	1061	615
45°	796	809	851	891	915	614
55°	600	618	674	729	754	536
65°	400	423	494	559	585	395
75°	202	240	321	359	359	215
85°	43	73	80	77	76	53
90°	0	0	0	0	0	



TEST NUMBER: P260952

CATALOG NUMBER: 24CZ-LD5-40SE-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1339.2	1339.2	1339.2	1339.2	1339.2
2.5°	1344.4	1334.0	1339.2	1337.9	1331.4
5°	1337.9	1328.8	1334.0	1332.7	1331.4
7.5°	1328.8	1319.6	1326.2	1324.8	1326.2
10°	1313.1	1305.2	1313.1	1314.4	1314.4
12.5°	1293.5	1287.0	1297.4	1300.0	1302.6
15°	1272.6	1267.4	1279.1	1284.3	1288.3
17.5°	1246.5	1242.5	1256.9	1263.4	1268.7
20°	1217.7	1216.4	1232.1	1238.6	1245.1
22.5°	1185.0	1185.0	1203.3	1211.2	1220.3
25°	1149.8	1151.1	1172.0	1182.4	1191.6
27.5°	1111.9	1113.2	1138.0	1151.1	1161.5
30°	1070.1	1075.3	1101.4	1118.4	1130.2
32.5°	1028.3	1034.8	1063.5	1083.1	1096.2
35°	983.8	991.7	1024.3	1046.5	1060.9
37.5°	938.1	947.3	982.5	1007.4	1024.3
40°	892.4	902.8	939.4	968.2	987.8
42.5°	844.0	855.8	896.3	930.3	951.2
45°	795.7	808.8	850.6	891.1	914.6
47.5°	747.3	763.0	807.5	851.9	876.7
50°	697.7	713.4	760.4	811.4	836.2
52.5°	648.1	666.3	718.6	770.9	795.7
55°	599.7	618.0	674.2	729.1	753.9
57.5°	550.1	568.4	629.8	687.2	712.1
60°	499.1	520.0	584.0	642.8	670.3
62.5°	449.5	471.7	539.6	602.3	628.5
65°	399.8	423.3	493.9	559.2	585.3
67.5°	348.8	376.3	449.5	516.1	543.5
70°	299.2	329.3	406.3	473.0	499.1
72.5°	250.9	283.5	363.2	431.2	446.8
75°	202.5	240.4	321.4	359.3	359.3
77.5°	156.8	198.6	274.4	288.7	296.6
80°	113.7	159.4	206.4	223.4	220.8
82.5°	75.8	121.5	147.6	147.6	143.7
85°	43.1	73.2	79.7	77.1	75.8
87.5°	18.3	27.4	24.8	19.6	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)