

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: P260861

Luminaire Tested: **24CZ-LD5-40-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260861
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-LD5-40-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3823.0 lumens
Efficiency: N/A
Efficacy: 131.3 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

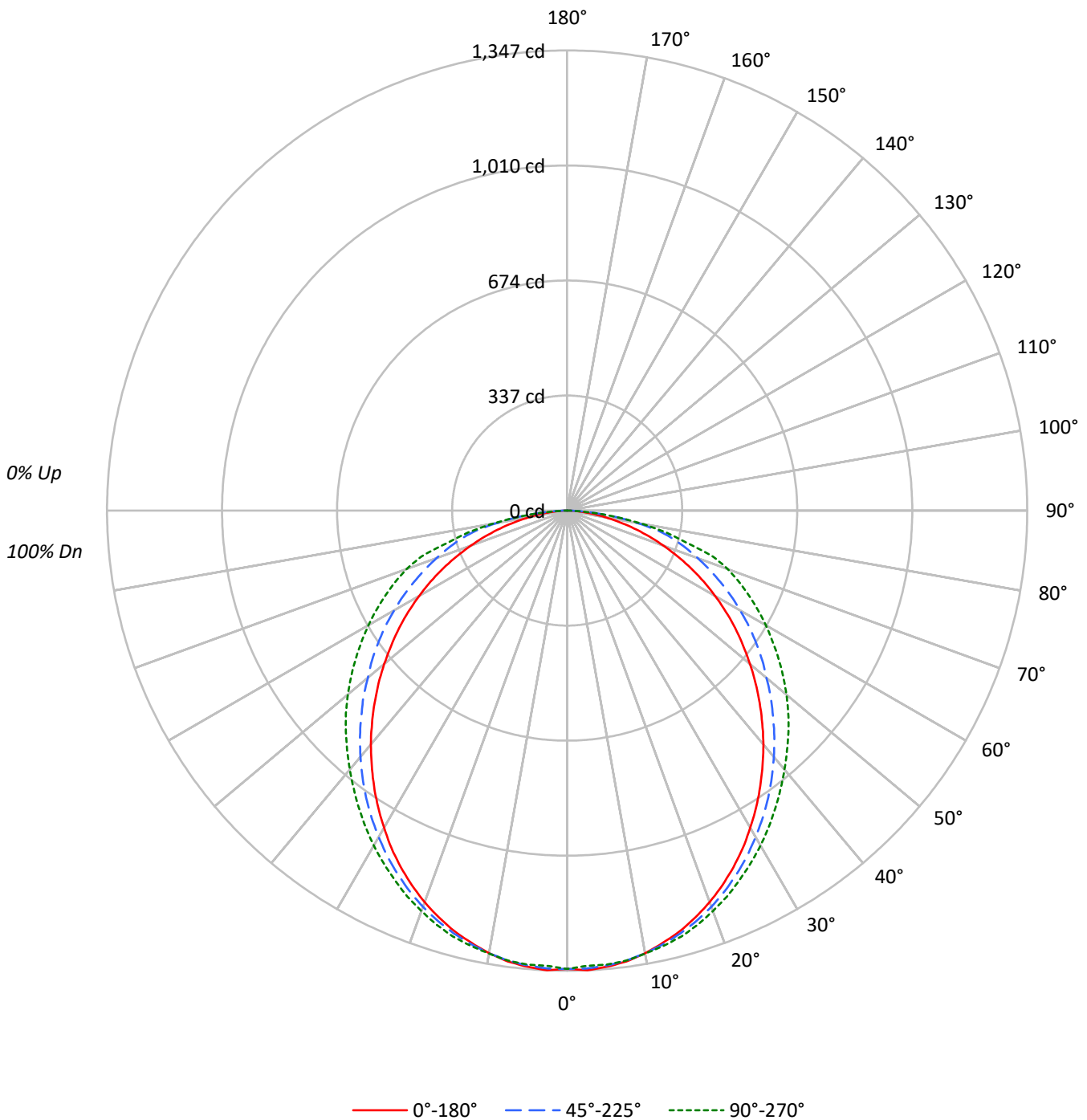
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1805	1805	1805
5°	1810	1805	1801
10°	1797	1797	1799
15°	1776	1785	1798
20°	1747	1767	1786
25°	1710	1743	1772
30°	1665	1714	1759
35°	1619	1686	1746
40°	1570	1653	1738
45°	1517	1621	1744
50°	1463	1595	1753
55°	1409	1584	1772
60°	1345	1574	1807
65°	1275	1575	1867
70°	1179	1602	1967
75°	1055	1674	1871
80°	883	1602	1714
85°	667	1232	1172



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	3.3
10°-20°	360.8	9.4
20°-30°	539.4	14.1
30°-40°	639.9	16.7
40°-50°	658.7	17.2
50°-60°	604.2	15.8
60°-70°	488.6	12.8
70°-80°	317.1	8.3
80°-90°	87.4	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°	1027.1	26.9
0°-40°	1667.0	43.6
0°-60°	2929.9	76.6
0°-90°	3823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3823.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1340	1331	1336	1335	1334	127
15°	1275	1270	1282	1287	1291	359
25°	1152	1153	1174	1185	1194	530
35°	986	994	1026	1048	1063	616
45°	797	810	852	893	916	615
55°	601	619	675	730	755	537
65°	400	424	495	560	586	396
75°	203	241	322	360	360	216
85°	43	73	80	77	76	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1341.7	1341.7	1341.7	1341.7	1341.7
2.5°	1346.9	1336.4	1341.7	1340.4	1333.8
5°	1340.4	1331.2	1336.4	1335.1	1333.8
7.5°	1331.2	1322.0	1328.6	1327.3	1328.6
10°	1315.5	1307.6	1315.5	1316.8	1316.8
12.5°	1295.9	1289.3	1299.8	1302.4	1305.0
15°	1274.9	1269.7	1281.5	1286.7	1290.6
17.5°	1248.7	1244.8	1259.2	1265.8	1271.0
20°	1219.9	1218.6	1234.3	1240.9	1247.4
22.5°	1187.2	1187.2	1205.5	1213.4	1222.6
25°	1151.9	1153.2	1174.1	1184.6	1193.8
27.5°	1113.9	1115.2	1140.1	1153.2	1163.7
30°	1072.0	1077.3	1103.4	1120.5	1132.2
32.5°	1030.1	1036.7	1065.5	1085.1	1098.2
35°	985.6	993.5	1026.2	1048.5	1062.9
37.5°	939.8	949.0	984.3	1009.2	1026.2
40°	894.0	904.5	941.1	969.9	989.6
42.5°	845.6	857.4	897.9	932.0	952.9
45°	797.2	810.2	852.1	892.7	916.3
47.5°	748.7	764.4	808.9	853.4	878.3
50°	699.0	714.7	761.8	812.9	837.7
52.5°	649.2	667.6	719.9	772.3	797.2
55°	600.8	619.1	675.4	730.4	755.3
57.5°	551.1	569.4	630.9	688.5	713.4
60°	500.0	521.0	585.1	644.0	671.5
62.5°	450.3	472.5	540.6	603.4	629.6
65°	400.5	424.1	494.8	560.2	586.4
67.5°	349.5	377.0	450.3	517.0	544.5
70°	299.7	329.9	407.1	473.8	500.0
72.5°	251.3	284.0	363.9	432.0	447.7
75°	202.9	240.8	322.0	360.0	360.0
77.5°	157.1	199.0	274.9	289.3	297.1
80°	113.9	159.7	206.8	223.8	221.2
82.5°	75.9	121.7	147.9	147.9	144.0
85°	43.2	73.3	79.8	77.2	75.9
87.5°	18.3	27.5	24.9	19.6	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)