

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: P260811

Luminaire Tested: **24CZ-LD5-40SE-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260811
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-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3822.0 lumens
Efficiency: N/A
Efficacy: 126.5 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

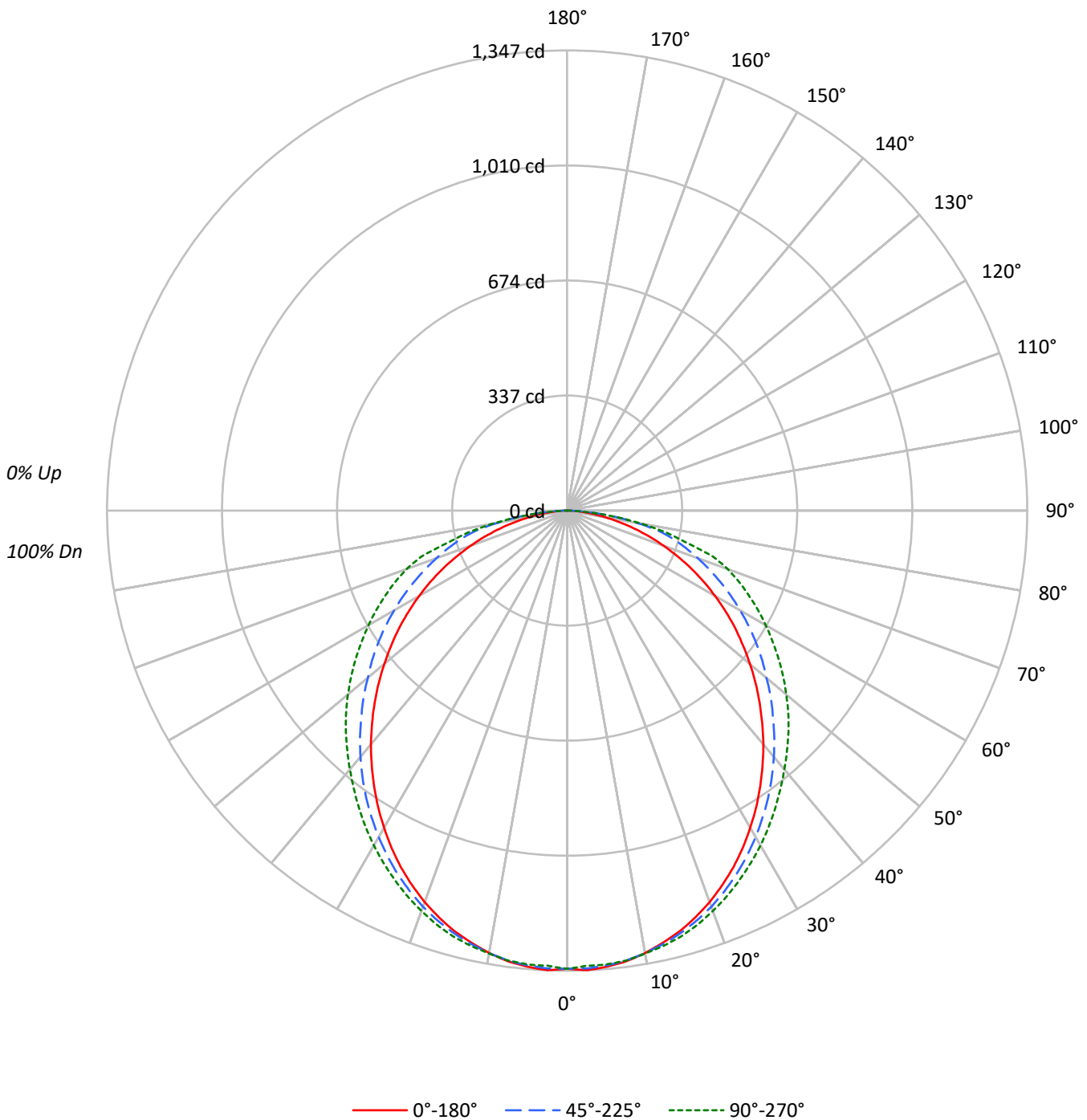
Input Watts (W): 30.225
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1805	1805	1805
5°	1810	1805	1801
10°	1797	1797	1799
15°	1775	1785	1797
20°	1746	1767	1786
25°	1710	1743	1772
30°	1665	1714	1759
35°	1619	1685	1745
40°	1570	1653	1738
45°	1516	1621	1743
50°	1463	1594	1753
55°	1409	1584	1771
60°	1345	1574	1806
65°	1275	1575	1867
70°	1179	1601	1967
75°	1054	1673	1871
80°	882	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°	539.3	14.1
30°-40°	639.8	16.7
40°-50°	658.5	17.2
50°-60°	604.1	15.8
60°-70°	488.4	12.8
70°-80°	317.0	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°	1026.8	26.9
0°-40°	1666.6	43.6
0°-60°	2929.1	76.6
0°-90°	3822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1341	1341	1341	1341	1341	
5°	1340	1331	1336	1335	1334	127
15°	1275	1269	1281	1286	1290	359
25°	1152	1153	1174	1184	1194	530
35°	985	993	1026	1048	1063	616
45°	797	810	852	892	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°	1341.3	1341.3	1341.3	1341.3	1341.3
2.5°	1346.6	1336.1	1341.3	1340.0	1333.5
5°	1340.0	1330.9	1336.1	1334.8	1333.5
7.5°	1330.9	1321.7	1328.2	1326.9	1328.2
10°	1315.2	1307.3	1315.2	1316.5	1316.5
12.5°	1295.5	1289.0	1299.4	1302.1	1304.7
15°	1274.6	1269.3	1281.1	1286.4	1290.3
17.5°	1248.4	1244.5	1258.9	1265.4	1270.7
20°	1219.6	1218.3	1234.0	1240.6	1247.1
22.5°	1186.9	1186.9	1205.2	1213.1	1222.2
25°	1151.6	1152.9	1173.8	1184.3	1193.5
27.5°	1113.6	1114.9	1139.8	1152.9	1163.4
30°	1071.8	1077.0	1103.2	1120.2	1131.9
32.5°	1029.9	1036.4	1065.2	1084.8	1097.9
35°	985.4	993.2	1025.9	1048.2	1062.6
37.5°	939.6	948.7	984.1	1008.9	1025.9
40°	893.8	904.2	940.9	969.7	989.3
42.5°	845.4	857.1	897.7	931.7	952.7
45°	796.9	810.0	851.9	892.5	916.0
47.5°	748.5	764.2	808.7	853.2	878.1
50°	698.8	714.5	761.6	812.6	837.5
52.5°	649.1	667.4	719.7	772.1	796.9
55°	600.7	619.0	675.2	730.2	755.1
57.5°	550.9	569.2	630.7	688.3	713.2
60°	499.9	520.8	584.9	643.8	671.3
62.5°	450.2	472.4	540.5	603.3	629.4
65°	400.4	424.0	494.7	560.1	586.3
67.5°	349.4	376.9	450.2	516.9	544.4
70°	299.7	329.8	407.0	473.7	499.9
72.5°	251.3	284.0	363.8	431.8	447.5
75°	202.8	240.8	321.9	359.9	359.9
77.5°	157.0	198.9	274.8	289.2	297.1
80°	113.8	159.7	206.8	223.8	221.2
82.5°	75.9	121.7	147.9	147.9	143.9
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)