

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: P260867

Luminaire Tested: **24CZ-LD5-45-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260867
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-LD5-45-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3961.0 lumens
Efficiency: N/A
Efficacy: 124.5 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

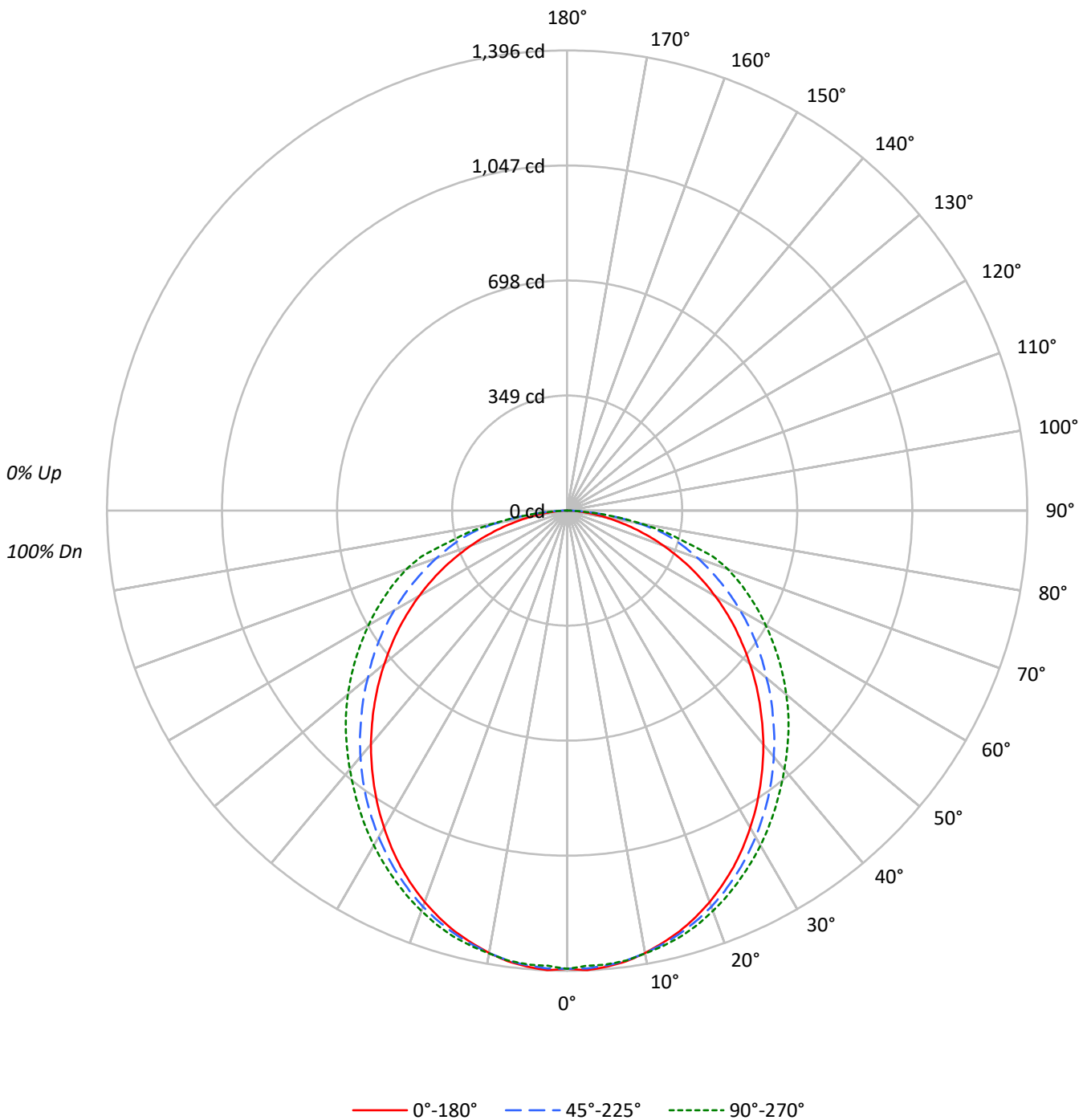
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1870	1870	1870
5°	1876	1870	1867
10°	1862	1862	1864
15°	1840	1849	1863
20°	1810	1831	1851
25°	1772	1806	1836
30°	1726	1776	1823
35°	1677	1747	1809
40°	1627	1713	1801
45°	1572	1680	1806
50°	1516	1652	1817
55°	1460	1642	1836
60°	1394	1631	1872
65°	1321	1632	1934
70°	1222	1659	2038
75°	1093	1734	1939
80°	914	1660	1776
85°	692	1277	1215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	3.3
10°-20°	373.9	9.4
20°-30°	558.9	14.1
30°-40°	663.0	16.7
40°-50°	682.4	17.2
50°-60°	626.1	15.8
60°-70°	506.2	12.8
70°-80°	328.5	8.3
80°-90°	90.6	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°	1064.1	26.9
0°-40°	1727.2	43.6
0°-60°	3035.7	76.6
0°-90°	3961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3961.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1389	1379	1385	1383	1382	132
15°	1321	1316	1328	1333	1337	372
25°	1194	1195	1216	1227	1237	549
35°	1021	1029	1063	1086	1101	639
45°	826	840	883	925	949	637
55°	622	642	700	757	782	556
65°	415	439	513	580	608	410
75°	210	250	334	373	373	223
85°	45	76	83	80	79	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1390.1	1390.1	1390.1	1390.1	1390.1
2.5°	1395.5	1384.7	1390.1	1388.7	1382.0
5°	1388.7	1379.3	1384.7	1383.3	1382.0
7.5°	1379.3	1369.8	1376.5	1375.2	1376.5
10°	1363.0	1354.8	1363.0	1364.3	1364.3
12.5°	1342.6	1335.9	1346.7	1349.4	1352.1
15°	1320.9	1315.5	1327.7	1333.1	1337.2
17.5°	1293.8	1289.7	1304.7	1311.4	1316.9
20°	1264.0	1262.6	1278.9	1285.7	1292.5
22.5°	1230.1	1230.1	1249.1	1257.2	1266.7
25°	1193.5	1194.8	1216.5	1227.4	1236.9
27.5°	1154.1	1155.5	1181.3	1194.8	1205.7
30°	1110.7	1116.2	1143.3	1160.9	1173.1
32.5°	1067.3	1074.1	1103.9	1124.3	1137.9
35°	1021.2	1029.4	1063.3	1086.3	1101.2
37.5°	973.8	983.2	1019.9	1045.6	1063.3
40°	926.3	937.1	975.1	1004.9	1025.3
42.5°	876.1	888.3	930.4	965.6	987.3
45°	825.9	839.5	882.9	924.9	949.3
47.5°	775.7	792.0	838.1	884.2	910.0
50°	724.2	740.5	789.3	842.2	868.0
52.5°	672.7	691.7	745.9	800.2	825.9
55°	622.5	641.5	699.8	756.8	782.5
57.5°	571.0	589.9	653.7	713.4	739.1
60°	518.1	539.8	606.2	667.3	695.7
62.5°	466.5	489.6	560.1	625.2	652.3
65°	415.0	439.4	512.6	580.5	607.6
67.5°	362.1	390.6	466.5	535.7	564.2
70°	310.6	341.8	421.8	490.9	518.1
72.5°	260.4	294.3	377.0	447.5	463.8
75°	210.2	249.5	333.6	373.0	373.0
77.5°	162.7	206.1	284.8	299.7	307.9
80°	118.0	165.5	214.3	231.9	229.2
82.5°	78.7	126.1	153.3	153.3	149.2
85°	44.8	75.9	82.7	80.0	78.7
87.5°	19.0	28.5	25.8	20.3	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)