

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: P260662

Luminaire Tested: **24CZ-LD5-65-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260662
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-LD5-65-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5085.0 lumens
Efficiency: N/A
Efficacy: 101.6 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

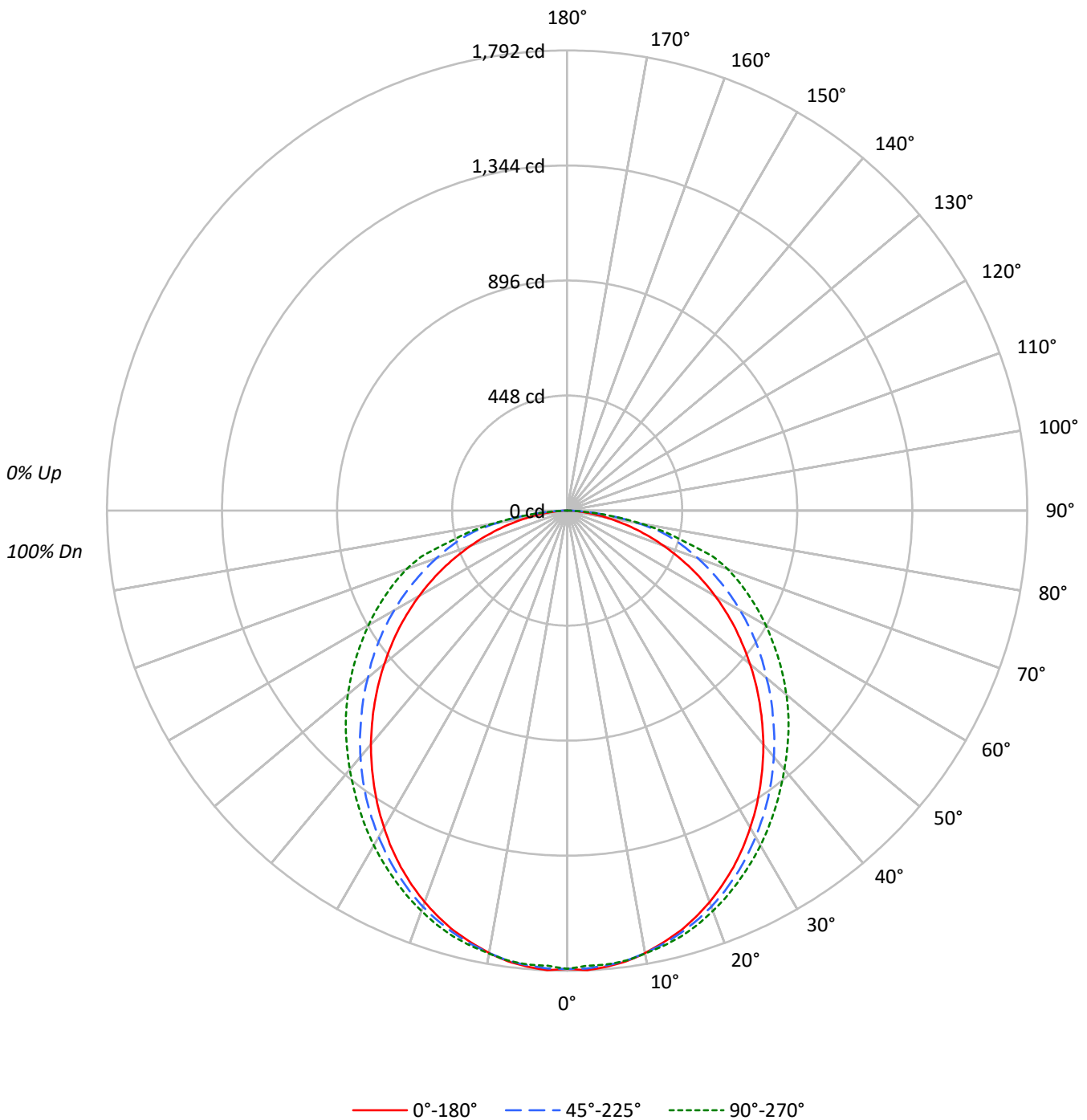
Input Watts (W): 50.043114
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2401	2401	2401
5°	2408	2401	2396
10°	2391	2391	2393
15°	2362	2374	2391
20°	2323	2351	2376
25°	2275	2318	2357
30°	2215	2280	2340
35°	2153	2242	2322
40°	2089	2199	2312
45°	2018	2157	2319
50°	1946	2121	2332
55°	1875	2107	2357
60°	1790	2094	2404
65°	1696	2095	2483
70°	1568	2130	2616
75°	1403	2227	2489
80°	1174	2132	2280
85°	888	1639	1559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	3.3
10°-20°	480.0	9.4
20°-30°	717.5	14.1
30°-40°	851.2	16.7
40°-50°	876.1	17.2
50°-60°	803.7	15.8
60°-70°	649.8	12.8
70°-80°	421.7	8.3
80°-90°	116.3	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°	1366.1	26.9
0°-40°	2217.3	43.6
0°-60°	3897.1	76.6
0°-90°	5085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1785	1785	1785	1785	1785	
5°	1783	1771	1778	1776	1774	169
15°	1696	1689	1704	1711	1717	478
25°	1532	1534	1562	1576	1588	705
35°	1311	1322	1365	1395	1414	820
45°	1060	1078	1133	1187	1219	818
55°	799	824	898	972	1005	714
65°	533	564	658	745	780	527
75°	270	320	428	479	479	287
85°	58	98	106	103	101	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1784.6	1784.6	1784.6	1784.6	1784.6
2.5°	1791.5	1777.6	1784.6	1782.8	1774.1
5°	1782.8	1770.6	1777.6	1775.9	1774.1
7.5°	1770.6	1758.5	1767.2	1765.4	1767.2
10°	1749.8	1739.3	1749.8	1751.5	1751.5
12.5°	1723.6	1714.9	1728.9	1732.3	1735.8
15°	1695.8	1688.8	1704.5	1711.4	1716.7
17.5°	1661.0	1655.7	1674.9	1683.6	1690.6
20°	1622.7	1620.9	1641.8	1650.5	1659.2
22.5°	1579.1	1579.1	1603.5	1614.0	1626.1
25°	1532.1	1533.9	1561.7	1575.6	1587.8
27.5°	1481.6	1483.4	1516.5	1533.9	1547.8
30°	1425.9	1432.9	1467.7	1490.3	1506.0
32.5°	1370.2	1378.9	1417.2	1443.3	1460.7
35°	1311.0	1321.5	1365.0	1394.6	1413.7
37.5°	1250.1	1262.3	1309.3	1342.3	1365.0
40°	1189.1	1203.1	1251.8	1290.1	1316.2
42.5°	1124.7	1140.4	1194.4	1239.6	1267.5
45°	1060.3	1077.7	1133.4	1187.4	1218.7
47.5°	995.9	1016.8	1076.0	1135.2	1168.2
50°	929.7	950.6	1013.3	1081.2	1114.3
52.5°	863.6	887.9	957.6	1027.2	1060.3
55°	799.1	823.5	898.4	971.5	1004.6
57.5°	733.0	757.4	839.2	915.8	948.9
60°	665.1	692.9	778.2	856.6	893.2
62.5°	598.9	628.5	719.1	802.6	837.4
65°	532.8	564.1	658.1	745.2	780.0
67.5°	464.9	501.4	598.9	687.7	724.3
70°	398.7	438.7	541.5	630.3	665.1
72.5°	334.3	377.8	484.0	574.5	595.4
75°	269.9	320.4	428.3	478.8	478.8
77.5°	208.9	264.6	365.6	384.8	395.2
80°	151.5	212.4	275.1	297.7	294.2
82.5°	101.0	161.9	196.7	196.7	191.5
85°	57.5	97.5	106.2	102.7	101.0
87.5°	24.4	36.6	33.1	26.1	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)