

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: P260963

Luminaire Tested: **24CZ-LD5-50SE-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260963
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-LD5-50SE-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3920.0 lumens
Efficiency: N/A
Efficacy: 98.9 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

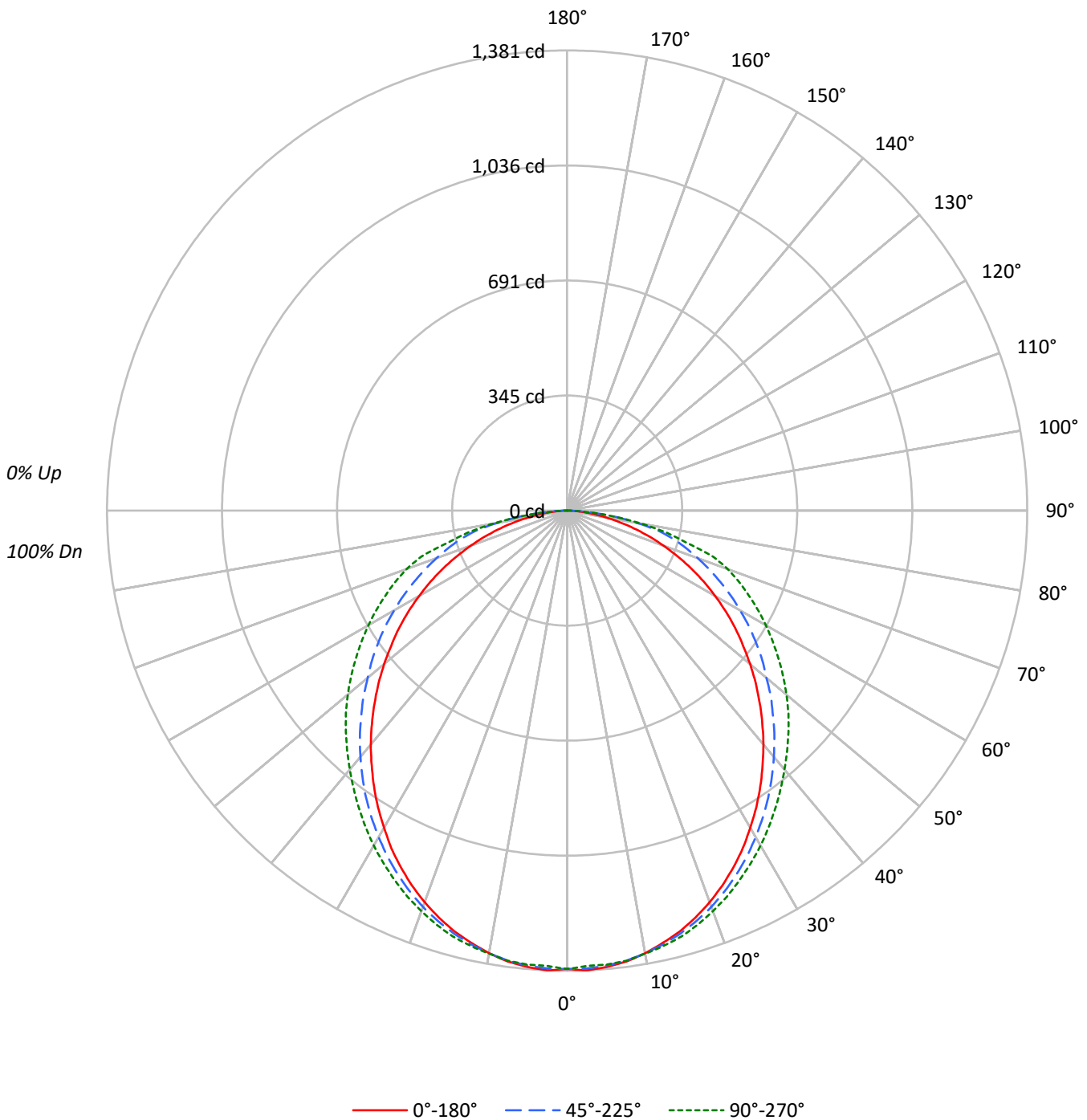
Input Watts (W): 39.618
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1851	1851	1851
5°	1856	1851	1847
10°	1843	1843	1845
15°	1821	1830	1843
20°	1791	1812	1831
25°	1753	1787	1817
30°	1708	1758	1804
35°	1660	1728	1790
40°	1610	1695	1782
45°	1555	1662	1788
50°	1500	1635	1798
55°	1445	1625	1817
60°	1380	1614	1853
65°	1308	1615	1914
70°	1209	1642	2017
75°	1081	1717	1919
80°	905	1643	1757
85°	684	1264	1201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	3.3
10°-20°	370.0	9.4
20°-30°	553.1	14.1
30°-40°	656.2	16.7
40°-50°	675.4	17.2
50°-60°	619.6	15.8
60°-70°	500.9	12.8
70°-80°	325.1	8.3
80°-90°	89.6	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°	1053.1	26.9
0°-40°	1709.3	43.6
0°-60°	3004.3	76.6
0°-90°	3920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3920.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1374	1365	1370	1369	1368	130
15°	1307	1302	1314	1319	1323	368
25°	1181	1182	1204	1215	1224	544
35°	1011	1019	1052	1075	1090	632
45°	817	831	874	915	940	631
55°	616	635	693	749	774	550
65°	411	435	507	574	601	406
75°	208	247	330	369	369	221
85°	44	75	82	79	78	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1375.7	1375.7	1375.7	1375.7	1375.7
2.5°	1381.1	1370.3	1375.7	1374.4	1367.7
5°	1374.4	1365.0	1370.3	1369.0	1367.7
7.5°	1365.0	1355.6	1362.3	1361.0	1362.3
10°	1348.9	1340.8	1348.9	1350.2	1350.2
12.5°	1328.7	1322.0	1332.8	1335.5	1338.1
15°	1307.3	1301.9	1314.0	1319.3	1323.4
17.5°	1280.4	1276.4	1291.2	1297.9	1303.2
20°	1250.9	1249.6	1265.7	1272.4	1279.1
22.5°	1217.3	1217.3	1236.1	1244.2	1253.6
25°	1181.1	1182.4	1203.9	1214.7	1224.1
27.5°	1142.2	1143.5	1169.0	1182.4	1193.2
30°	1099.2	1104.6	1131.4	1148.9	1161.0
32.5°	1056.3	1063.0	1092.5	1112.7	1126.1
35°	1010.6	1018.7	1052.3	1075.1	1089.8
37.5°	963.7	973.1	1009.3	1034.8	1052.3
40°	916.7	927.4	965.0	994.5	1014.7
42.5°	867.0	879.1	920.7	955.6	977.1
45°	817.4	830.8	873.7	915.4	939.5
47.5°	767.7	783.8	829.5	875.1	900.6
50°	716.7	732.8	781.1	833.5	859.0
52.5°	665.7	684.5	738.2	791.9	817.4
55°	616.1	634.8	692.6	748.9	774.4
57.5°	565.1	583.8	646.9	706.0	731.5
60°	512.7	534.2	599.9	660.3	688.5
62.5°	461.7	484.5	554.3	618.7	645.6
65°	410.7	434.9	507.3	574.4	601.3
67.5°	358.4	386.5	461.7	530.2	558.3
70°	307.4	338.2	417.4	485.9	512.7
72.5°	257.7	291.2	373.1	442.9	459.0
75°	208.0	247.0	330.2	369.1	369.1
77.5°	161.1	204.0	281.9	296.6	304.7
80°	116.8	163.7	212.1	229.5	226.8
82.5°	77.8	124.8	151.7	151.7	147.6
85°	44.3	75.2	81.9	79.2	77.8
87.5°	18.8	28.2	25.5	20.1	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)