

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: P230496

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-RDP-UNV-L930-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (168) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4086.0 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

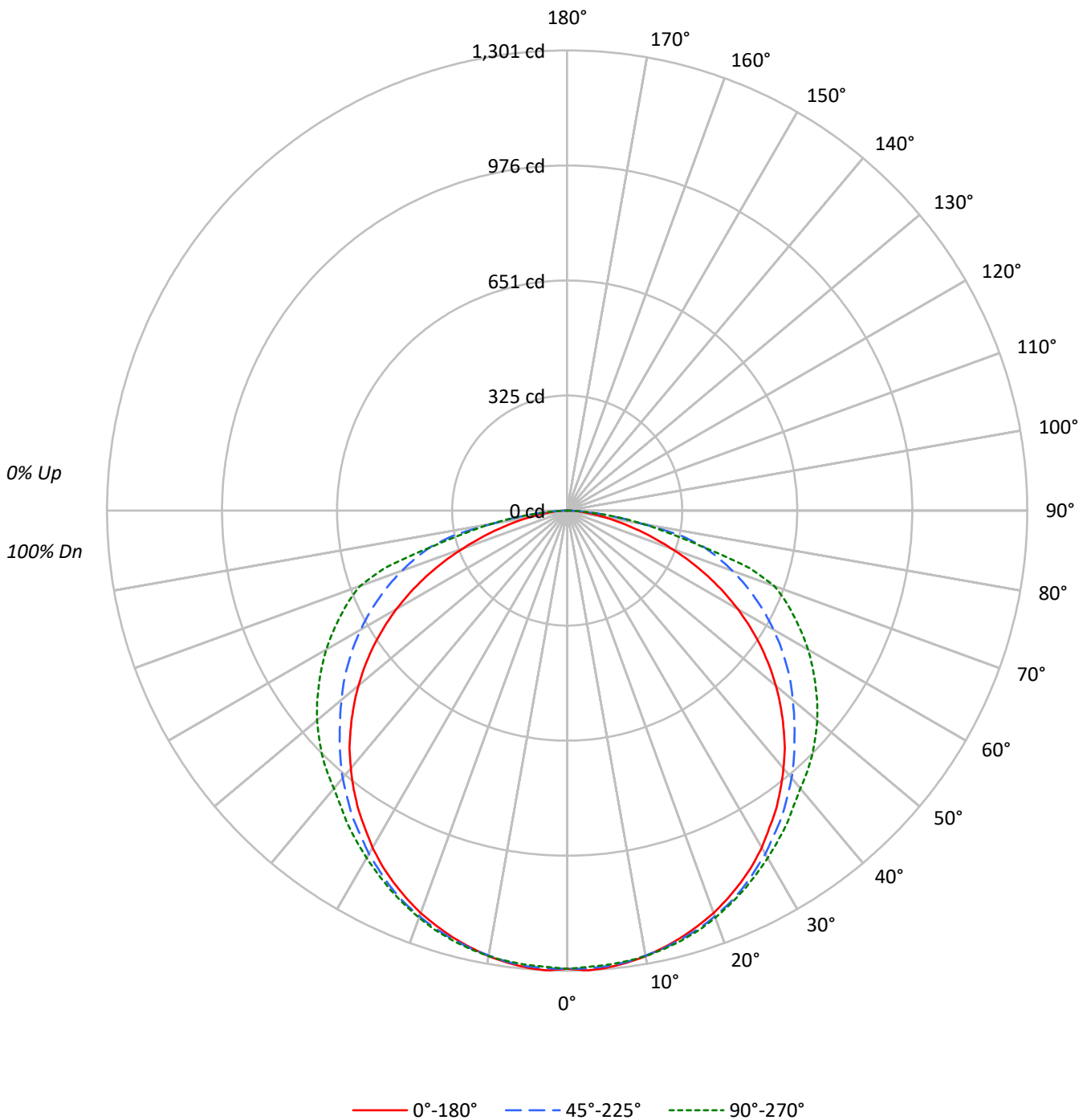
Input Watts (W): 69.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20						20								20					
RC	80					70						30								10	0				
RW	70	50	30	10		70	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	98	94		105	101	97	93			96	93	90					92	90	87	89	87	84	82
2	98	89	82	76		95	87	80	75			83	78	73					80	75	71	77	73	70	67
3	89	78	69	62		86	76	68	62			73	66	60					70	64	59	67	62	58	56
4	81	68	59	52		78	67	58	52			64	57	51					62	56	50	60	54	50	47
5	74	61	51	45		72	60	51	44			57	50	44					55	49	43	54	48	43	41
6	68	55	45	39		66	54	45	38			52	44	38					50	43	38	48	42	37	35
7	63	49	40	34		61	48	40	34			47	39	34					45	38	33	44	38	33	31
8	59	45	36	30		57	44	36	30			43	35	30					42	35	30	40	34	29	27
9	55	41	33	27		53	41	32	27			39	32	27					38	32	27	37	31	27	25
10	51	38	30	24		50	37	30	24			36	29	24					35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1743	1743	1743
5°	1752	1747	1741
10°	1748	1745	1748
15°	1740	1746	1751
20°	1734	1748	1754
25°	1723	1747	1756
30°	1709	1741	1762
35°	1691	1738	1777
40°	1671	1735	1802
45°	1646	1730	1864
50°	1612	1743	1932
55°	1567	1774	2010
60°	1499	1813	2116
65°	1396	1870	2254
70°	1234	1954	2453
75°	1035	2091	2060
80°	826	1652	1714
85°	651	1118	1025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	3.0
10°-20°	353.6	8.7
20°-30°	540.1	13.2
30°-40°	660.2	16.2
40°-50°	706.7	17.3
50°-60°	677.9	16.6
60°-70°	572.4	14.0
70°-80°	365.8	9.0
80°-90°	86.5	2.1
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°	1016.5	24.9
0°-40°	1676.7	41.0
0°-60°	3061.3	74.9
0°-90°	4086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1295	1295	1295	1295	1295	
5°	1297	1289	1293	1291	1289	123
15°	1249	1245	1253	1257	1257	353
25°	1160	1158	1177	1181	1183	535
35°	1030	1038	1058	1072	1082	644
45°	865	879	909	951	980	667
55°	668	690	756	825	857	596
65°	438	481	587	670	708	432
75°	199	284	402	410	396	214
85°	42	70	72	70	66	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1295.3	1295.3	1295.3	1295.3	1295.3
2.5°	1301.3	1293.3	1295.3	1295.3	1291.3
5°	1297.3	1289.3	1293.3	1291.3	1289.3
7.5°	1289.3	1283.2	1287.2	1287.2	1285.2
10°	1279.2	1273.2	1277.2	1279.2	1279.2
12.5°	1265.1	1261.1	1267.1	1267.1	1269.1
15°	1249.0	1245.0	1253.1	1257.1	1257.1
17.5°	1230.9	1228.9	1239.0	1241.0	1243.0
20°	1210.8	1208.8	1220.9	1220.9	1224.9
22.5°	1186.7	1184.7	1200.8	1200.8	1204.8
25°	1160.5	1158.5	1176.6	1180.6	1182.7
27.5°	1132.4	1130.4	1148.5	1154.5	1158.5
30°	1100.2	1100.2	1120.3	1128.4	1134.4
32.5°	1064.0	1070.0	1088.1	1100.2	1108.2
35°	1029.8	1037.8	1058.0	1072.0	1082.1
37.5°	991.6	999.6	1021.8	1039.9	1051.9
40°	951.4	961.4	987.6	1007.7	1025.8
42.5°	911.1	921.2	949.3	979.5	1003.7
45°	864.9	878.9	909.1	951.4	979.5
47.5°	818.6	832.7	870.9	923.2	951.4
50°	770.3	786.4	832.7	893.0	923.2
52.5°	720.1	738.2	796.5	860.8	891.0
55°	667.8	689.9	756.3	824.6	856.8
57.5°	613.5	637.6	716.0	788.4	822.6
60°	557.1	587.3	673.8	750.2	786.4
62.5°	498.8	535.0	631.6	710.0	748.2
65°	438.5	480.7	587.3	669.8	708.0
67.5°	376.1	432.4	543.1	629.5	667.8
70°	313.8	380.1	496.8	585.3	623.5
72.5°	255.4	331.9	450.5	533.0	541.0
75°	199.1	283.6	402.3	410.3	396.2
77.5°	148.8	235.3	331.9	295.7	293.7
80°	106.6	189.1	213.2	219.2	221.2
82.5°	70.4	142.8	138.8	142.8	140.8
85°	42.2	70.4	72.4	70.4	66.4
87.5°	20.1	26.1	20.1	18.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)