

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: P230497

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230497
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-L935-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (168) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4247.3 lumens
Efficiency: N/A
Efficacy: 61.5 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

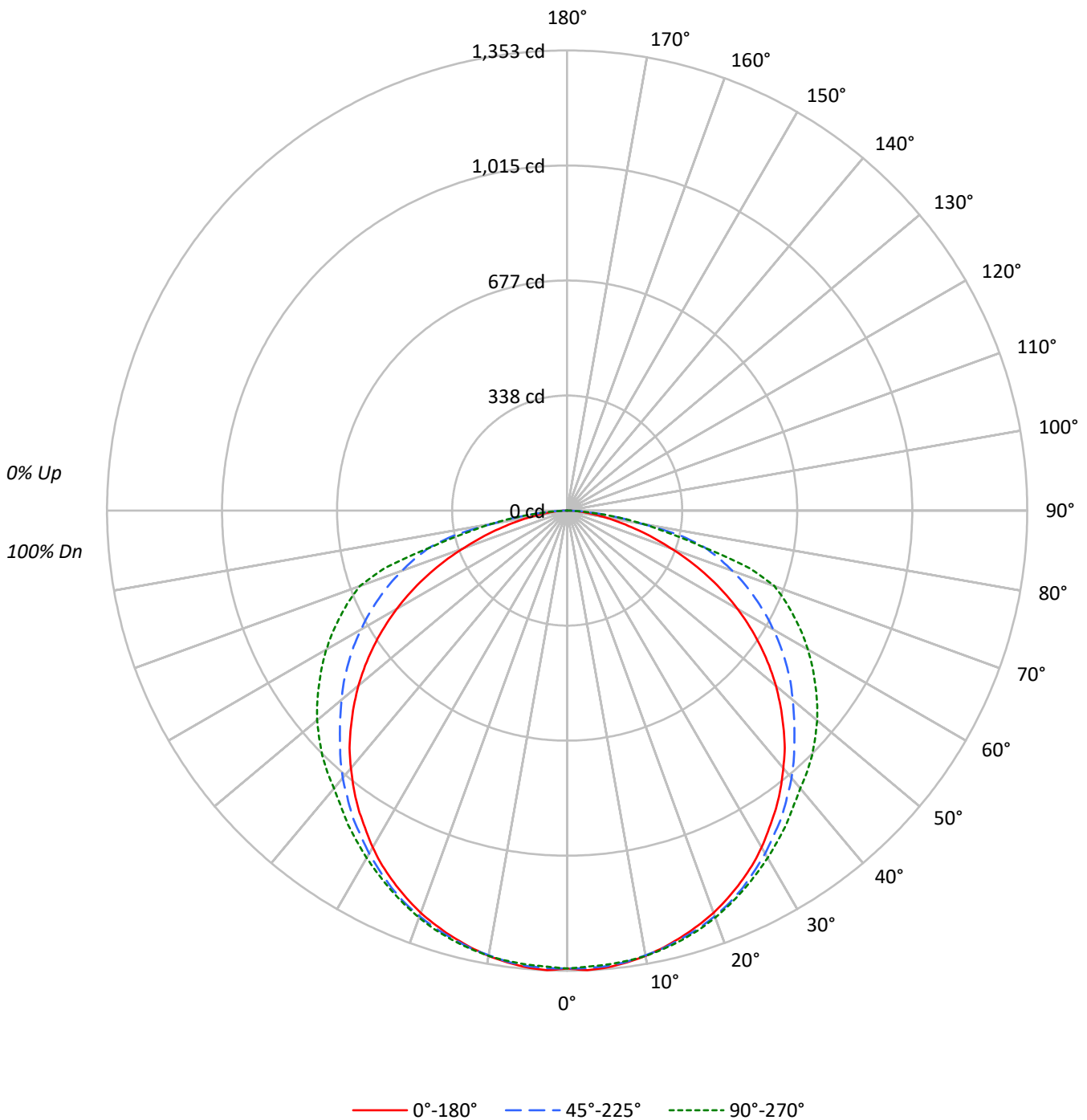
Input Watts (W): 69.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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°	1812	1812	1812
5°	1821	1816	1810
10°	1817	1814	1817
15°	1809	1814	1820
20°	1802	1817	1823
25°	1791	1816	1825
30°	1777	1809	1832
35°	1758	1806	1848
40°	1737	1803	1873
45°	1711	1798	1937
50°	1676	1812	2009
55°	1628	1844	2089
60°	1558	1885	2200
65°	1451	1944	2343
70°	1283	2031	2550
75°	1076	2174	2141
80°	859	1717	1782
85°	678	1162	1065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	3.0
10°-20°	367.5	8.7
20°-30°	561.4	13.2
30°-40°	686.3	16.2
40°-50°	734.6	17.3
50°-60°	704.6	16.6
60°-70°	595.0	14.0
70°-80°	380.2	9.0
80°-90°	89.9	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°	1056.6	24.9
0°-40°	1742.9	41.0
0°-60°	3182.2	74.9
0°-90°	4247.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4247.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1346	1346	1346	1346	1346	
5°	1348	1340	1344	1342	1340	128
15°	1298	1294	1302	1307	1307	367
25°	1206	1204	1223	1227	1229	556
35°	1070	1079	1100	1114	1125	669
45°	899	914	945	989	1018	693
55°	694	717	786	857	891	619
65°	456	500	610	696	736	450
75°	207	295	418	426	412	223
85°	44	73	75	73	69	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1346.4	1346.4	1346.4	1346.4	1346.4
2.5°	1352.7	1344.3	1346.4	1346.4	1342.3
5°	1348.5	1340.2	1344.3	1342.3	1340.2
7.5°	1340.2	1333.9	1338.1	1338.1	1336.0
10°	1329.7	1323.4	1327.6	1329.7	1329.7
12.5°	1315.1	1310.9	1317.2	1317.2	1319.3
15°	1298.4	1294.2	1302.5	1306.7	1306.7
17.5°	1279.5	1277.4	1287.9	1290.0	1292.1
20°	1258.6	1256.5	1269.1	1269.1	1273.3
22.5°	1233.5	1231.4	1248.2	1248.2	1252.4
25°	1206.4	1204.3	1223.1	1227.3	1229.4
27.5°	1177.1	1175.0	1193.8	1200.1	1204.3
30°	1143.6	1143.6	1164.5	1172.9	1179.2
32.5°	1106.0	1112.3	1131.1	1143.6	1152.0
35°	1070.5	1078.8	1099.7	1114.4	1124.8
37.5°	1030.7	1039.1	1062.1	1080.9	1093.5
40°	988.9	999.4	1026.6	1047.5	1066.3
42.5°	947.1	957.6	986.8	1018.2	1043.3
45°	899.0	913.7	945.0	988.9	1018.2
47.5°	850.9	865.6	905.3	959.7	988.9
50°	800.8	817.5	865.6	928.3	959.7
52.5°	748.5	767.3	827.9	894.8	926.2
55°	694.1	717.1	786.1	857.2	890.7
57.5°	637.7	662.8	744.3	819.6	855.1
60°	579.1	610.5	700.4	779.8	817.5
62.5°	518.5	556.1	656.5	738.0	777.8
65°	455.8	499.7	610.5	696.2	735.9
67.5°	391.0	449.5	564.5	654.4	694.1
70°	326.2	395.2	516.4	608.4	648.1
72.5°	265.5	345.0	468.3	554.0	562.4
75°	207.0	294.8	418.1	426.5	411.9
77.5°	154.7	244.6	345.0	307.3	305.2
80°	110.8	196.5	221.6	227.9	230.0
82.5°	73.2	148.4	144.3	148.4	146.4
85°	43.9	73.2	75.3	73.2	69.0
87.5°	20.9	27.2	20.9	18.8	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)