

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: P230495

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230495
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-LD5-70-RDP-UNV-L950-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (168) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4477.8 lumens
Efficiency: N/A
Efficacy: 69.7 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

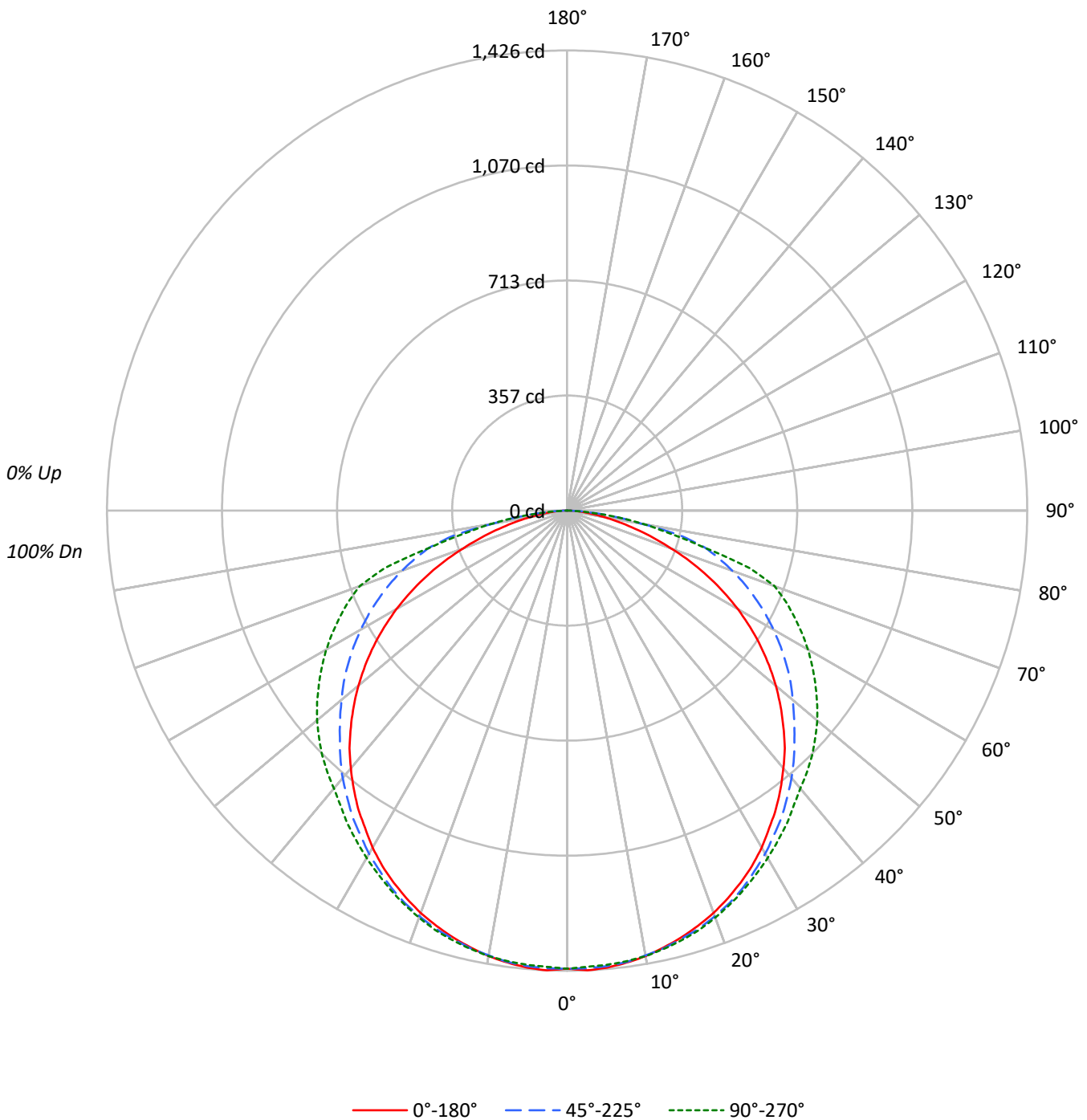
Input Watts (W): 64.22
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1910	1910	1910
5°	1920	1914	1908
10°	1915	1912	1915
15°	1907	1913	1919
20°	1900	1916	1922
25°	1888	1914	1924
30°	1873	1907	1931
35°	1854	1904	1948
40°	1831	1901	1974
45°	1803	1896	2042
50°	1767	1910	2118
55°	1717	1944	2203
60°	1643	1987	2319
65°	1530	2049	2470
70°	1353	2142	2688
75°	1134	2292	2257
80°	905	1810	1879
85°	715	1226	1122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	3.0
10°-20°	387.5	8.7
20°-30°	591.8	13.2
30°-40°	723.6	16.2
40°-50°	774.5	17.3
50°-60°	742.9	16.6
60°-70°	627.2	14.0
70°-80°	400.9	9.0
80°-90°	94.8	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°	1113.9	24.9
0°-40°	1837.5	41.0
0°-60°	3354.9	74.9
0°-90°	4477.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4477.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1420	1420	1420	1420	1420	
5°	1422	1413	1417	1415	1413	135
15°	1369	1364	1373	1378	1378	386
25°	1272	1270	1290	1294	1296	586
35°	1128	1137	1159	1175	1186	706
45°	948	963	996	1043	1073	731
55°	732	756	829	904	939	653
65°	480	527	644	734	776	474
75°	218	311	441	450	434	235
85°	46	77	79	77	73	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1419.5	1419.5	1419.5	1419.5	1419.5
2.5°	1426.1	1417.3	1419.5	1419.5	1415.1
5°	1421.7	1412.9	1417.3	1415.1	1412.9
7.5°	1412.9	1406.3	1410.7	1410.7	1408.5
10°	1401.9	1395.3	1399.7	1401.9	1401.9
12.5°	1386.4	1382.0	1388.6	1388.6	1390.8
15°	1368.8	1364.4	1373.2	1377.6	1377.6
17.5°	1349.0	1346.8	1357.8	1360.0	1362.2
20°	1326.9	1324.7	1337.9	1337.9	1342.4
22.5°	1300.5	1298.3	1315.9	1315.9	1320.3
25°	1271.8	1269.6	1289.5	1293.9	1296.1
27.5°	1241.0	1238.8	1258.6	1265.2	1269.6
30°	1205.7	1205.7	1227.7	1236.6	1243.2
32.5°	1166.0	1172.6	1192.5	1205.7	1214.5
35°	1128.5	1137.4	1159.4	1174.8	1185.9
37.5°	1086.7	1095.5	1119.7	1139.6	1152.8
40°	1042.6	1053.6	1082.3	1104.3	1124.1
42.5°	998.5	1009.5	1040.4	1073.4	1099.9
45°	947.8	963.2	996.3	1042.6	1073.4
47.5°	897.1	912.5	954.4	1011.7	1042.6
50°	844.2	861.8	912.5	978.7	1011.7
52.5°	789.1	808.9	872.9	943.4	976.5
55°	731.8	756.0	828.8	903.7	939.0
57.5°	672.3	698.7	784.7	864.0	901.5
60°	610.6	643.6	738.4	822.2	861.8
62.5°	546.6	586.3	692.1	778.1	820.0
65°	480.5	526.8	643.6	734.0	775.9
67.5°	412.2	473.9	595.1	689.9	731.8
70°	343.9	416.6	544.4	641.4	683.3
72.5°	279.9	363.7	493.7	584.1	592.9
75°	218.2	310.8	440.8	449.7	434.2
77.5°	163.1	257.9	363.7	324.0	321.8
80°	116.8	207.2	233.6	240.3	242.5
82.5°	77.1	156.5	152.1	156.5	154.3
85°	46.3	77.1	79.4	77.1	72.7
87.5°	22.0	28.7	22.0	19.8	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)