

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: P230499

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230499
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-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: 4735.3 lumens
Efficiency: N/A
Efficacy: 68.6 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

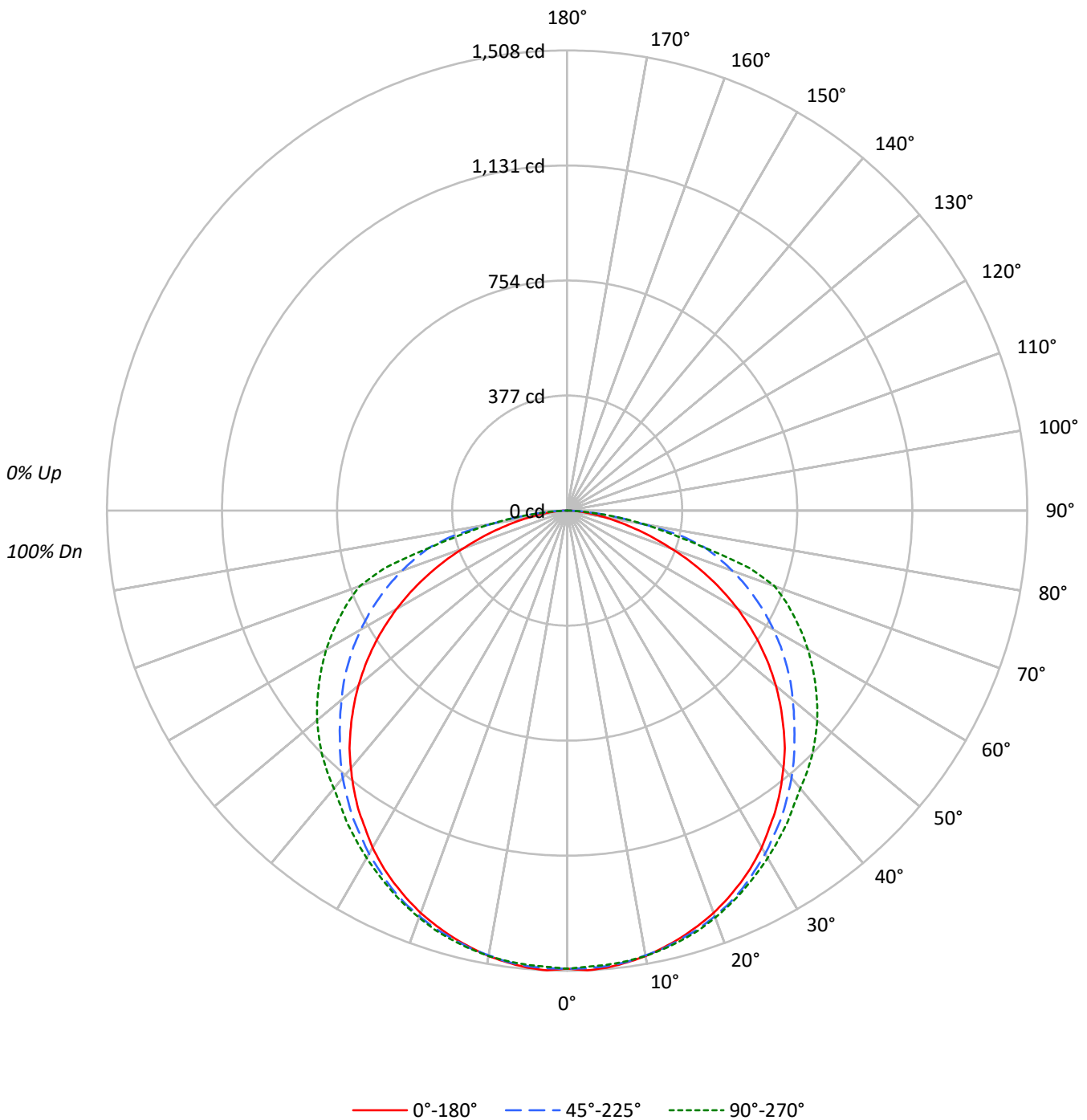
Input Watts (W): 69.06
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2020	2020	2020
5°	2031	2024	2018
10°	2025	2022	2025
15°	2016	2023	2029
20°	2009	2026	2032
25°	1997	2024	2035
30°	1981	2017	2042
35°	1960	2014	2060
40°	1936	2010	2088
45°	1907	2005	2160
50°	1869	2020	2240
55°	1815	2056	2329
60°	1738	2101	2453
65°	1618	2167	2612
70°	1430	2265	2843
75°	1200	2424	2387
80°	957	1915	1987
85°	755	1295	1187



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.0
10°-20°	409.8	8.7
20°-30°	625.9	13.2
30°-40°	765.2	16.2
40°-50°	819.0	17.3
50°-60°	785.6	16.6
60°-70°	663.3	14.0
70°-80°	423.9	9.0
80°-90°	100.3	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°	1178.0	24.9
0°-40°	1943.2	41.0
0°-60°	3547.8	74.9
0°-90°	4735.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4735.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1504	1494	1499	1496	1494	143
15°	1448	1443	1452	1457	1457	409
25°	1345	1343	1364	1368	1371	620
35°	1193	1203	1226	1242	1254	746
45°	1002	1019	1054	1102	1135	773
55°	774	800	876	956	993	691
65°	508	557	681	776	820	501
75°	231	329	466	476	459	248
85°	49	82	84	82	77	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1501.1	1501.1	1501.1	1501.1	1501.1
2.5°	1508.1	1498.8	1501.1	1501.1	1496.5
5°	1503.5	1494.1	1498.8	1496.5	1494.1
7.5°	1494.1	1487.1	1491.8	1491.8	1489.5
10°	1482.5	1475.5	1480.1	1482.5	1482.5
12.5°	1466.2	1461.5	1468.5	1468.5	1470.8
15°	1447.5	1442.8	1452.2	1456.8	1456.8
17.5°	1426.5	1424.2	1435.9	1438.2	1440.5
20°	1403.2	1400.9	1414.9	1414.9	1419.5
22.5°	1375.3	1372.9	1391.6	1391.6	1396.2
25°	1344.9	1342.6	1363.6	1368.3	1370.6
27.5°	1312.3	1310.0	1331.0	1338.0	1342.6
30°	1275.0	1275.0	1298.3	1307.7	1314.6
32.5°	1233.1	1240.1	1261.0	1275.0	1284.3
35°	1193.4	1202.8	1226.1	1242.4	1254.0
37.5°	1149.2	1158.5	1184.1	1205.1	1219.1
40°	1102.5	1114.2	1144.5	1167.8	1188.8
42.5°	1055.9	1067.6	1100.2	1135.2	1163.1
45°	1002.3	1018.6	1053.6	1102.5	1135.2
47.5°	948.7	965.0	1009.3	1069.9	1102.5
50°	892.7	911.4	965.0	1034.9	1069.9
52.5°	834.5	855.5	923.0	997.6	1032.6
55°	773.9	799.5	876.4	955.7	993.0
57.5°	710.9	738.9	829.8	913.7	953.4
60°	645.7	680.6	780.9	869.4	911.4
62.5°	578.1	620.0	731.9	822.8	867.1
65°	508.1	557.1	680.6	776.2	820.5
67.5°	435.9	501.2	629.4	729.6	773.9
70°	363.6	440.5	575.7	678.3	722.6
72.5°	296.0	384.6	522.1	617.7	627.0
75°	230.8	328.7	466.2	475.5	459.2
77.5°	172.5	272.7	384.6	342.6	340.3
80°	123.5	219.1	247.1	254.1	256.4
82.5°	81.6	165.5	160.8	165.5	163.2
85°	48.9	81.6	83.9	81.6	76.9
87.5°	23.3	30.3	23.3	21.0	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)