

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: P230483

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230483
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-LD5-55-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: 3478.9 lumens
Efficiency: N/A
Efficacy: 76.0 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

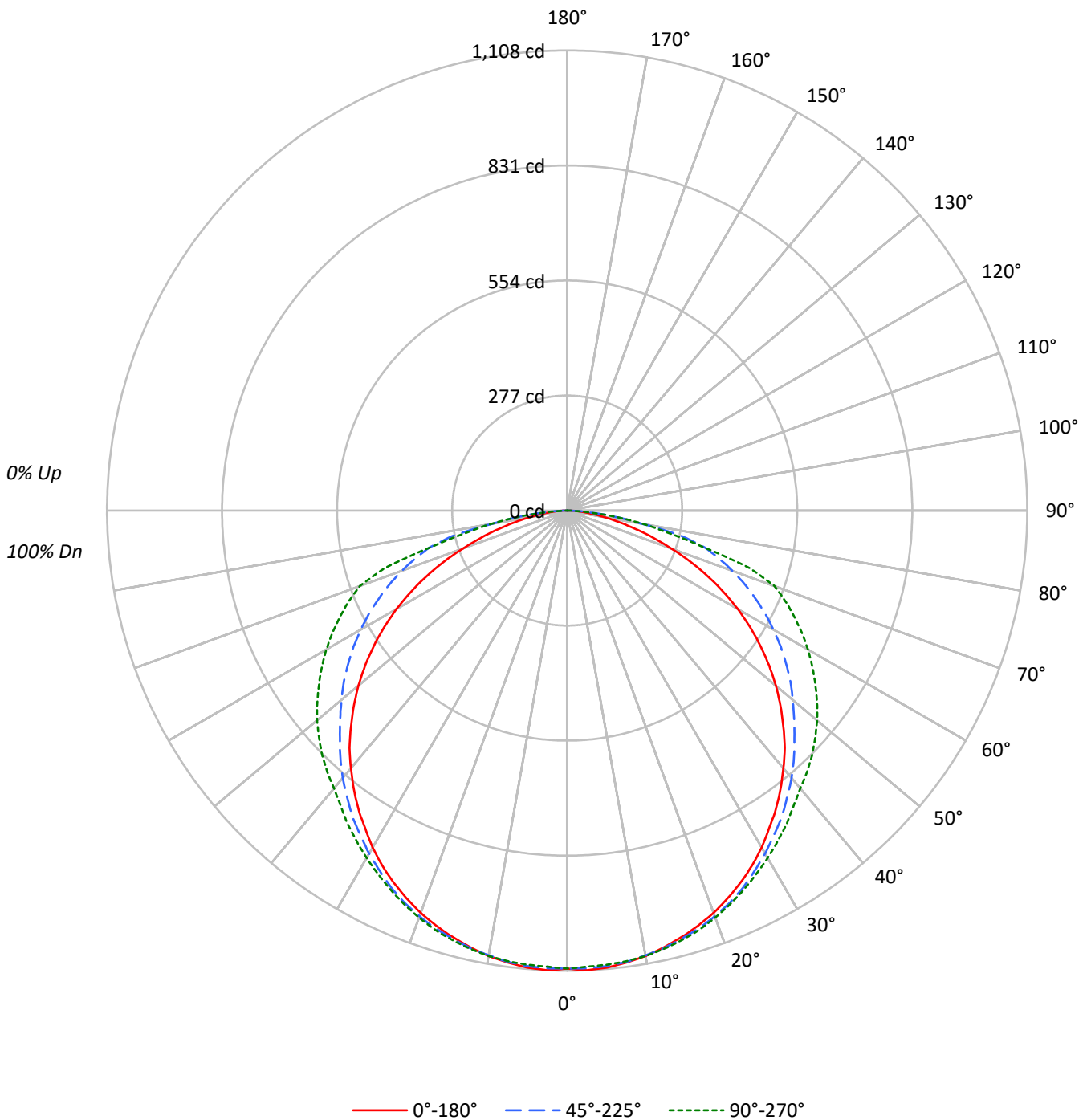
Input Watts (W): 45.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20				20			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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82	82	
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67	67	
3	89	78	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56	56	
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47	47	
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41	41	
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35	35	
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31	31	
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27	27	
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25	25	
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22	22	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1484	1484	1484
5°	1492	1487	1483
10°	1488	1486	1488
15°	1481	1486	1491
20°	1476	1488	1493
25°	1467	1487	1495
30°	1455	1482	1501
35°	1440	1480	1513
40°	1423	1477	1534
45°	1401	1473	1587
50°	1373	1484	1645
55°	1334	1510	1711
60°	1277	1544	1802
65°	1188	1592	1919
70°	1051	1664	2089
75°	881	1781	1754
80°	704	1406	1460
85°	556	951	872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	3.0
10°-20°	301.0	8.7
20°-30°	459.8	13.2
30°-40°	562.1	16.2
40°-50°	601.7	17.3
50°-60°	577.2	16.6
60°-70°	487.3	14.0
70°-80°	311.5	9.0
80°-90°	73.7	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°	865.4	24.9
0°-40°	1427.6	41.0
0°-60°	2606.4	74.9
0°-90°	3478.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3478.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1103	1103	1103	1103	1103	
5°	1104	1098	1101	1099	1098	105
15°	1063	1060	1067	1070	1070	300
25°	988	986	1002	1005	1007	455
35°	877	884	901	913	921	548
45°	736	748	774	810	834	568
55°	568	587	644	702	730	507
65°	373	409	500	570	603	368
75°	170	242	342	349	337	182
85°	36	60	62	60	56	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.8	1102.8	1102.8	1102.8	1102.8
2.5°	1108.0	1101.1	1102.8	1102.8	1099.4
5°	1104.5	1097.7	1101.1	1099.4	1097.7
7.5°	1097.7	1092.6	1096.0	1096.0	1094.3
10°	1089.1	1084.0	1087.4	1089.1	1089.1
12.5°	1077.1	1073.7	1078.9	1078.9	1080.6
15°	1063.4	1060.0	1066.9	1070.3	1070.3
17.5°	1048.0	1046.3	1054.9	1056.6	1058.3
20°	1030.9	1029.2	1039.5	1039.5	1042.9
22.5°	1010.4	1008.6	1022.3	1022.3	1025.8
25°	988.1	986.4	1001.8	1005.2	1006.9
27.5°	964.1	962.4	977.8	983.0	986.4
30°	936.7	936.7	953.8	960.7	965.8
32.5°	905.9	911.0	926.4	936.7	943.6
35°	876.8	883.6	900.8	912.7	921.3
37.5°	844.2	851.1	869.9	885.3	895.6
40°	810.0	818.6	840.8	857.9	873.4
42.5°	775.7	784.3	808.3	834.0	854.5
45°	736.4	748.3	774.0	810.0	834.0
47.5°	697.0	709.0	741.5	786.0	810.0
50°	655.9	669.6	709.0	760.3	786.0
52.5°	613.1	628.5	678.1	732.9	758.6
55°	568.5	587.4	643.9	702.1	729.5
57.5°	522.3	542.9	609.6	671.3	700.4
60°	474.4	500.0	573.7	638.7	669.6
62.5°	424.7	455.5	537.7	604.5	637.0
65°	373.3	409.3	500.0	570.3	602.8
67.5°	320.2	368.2	462.4	536.0	568.5
70°	267.1	323.7	423.0	498.3	530.9
72.5°	217.5	282.6	383.6	453.8	460.7
75°	169.5	241.5	342.5	349.3	337.4
77.5°	126.7	200.4	282.6	251.7	250.0
80°	90.8	161.0	181.5	186.7	188.4
82.5°	59.9	121.6	118.2	121.6	119.9
85°	36.0	59.9	61.6	59.9	56.5
87.5°	17.1	22.3	17.1	15.4	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)