

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: P263827

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263827
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-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3565.0 lumens
Efficiency: N/A
Efficacy: 86.9 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

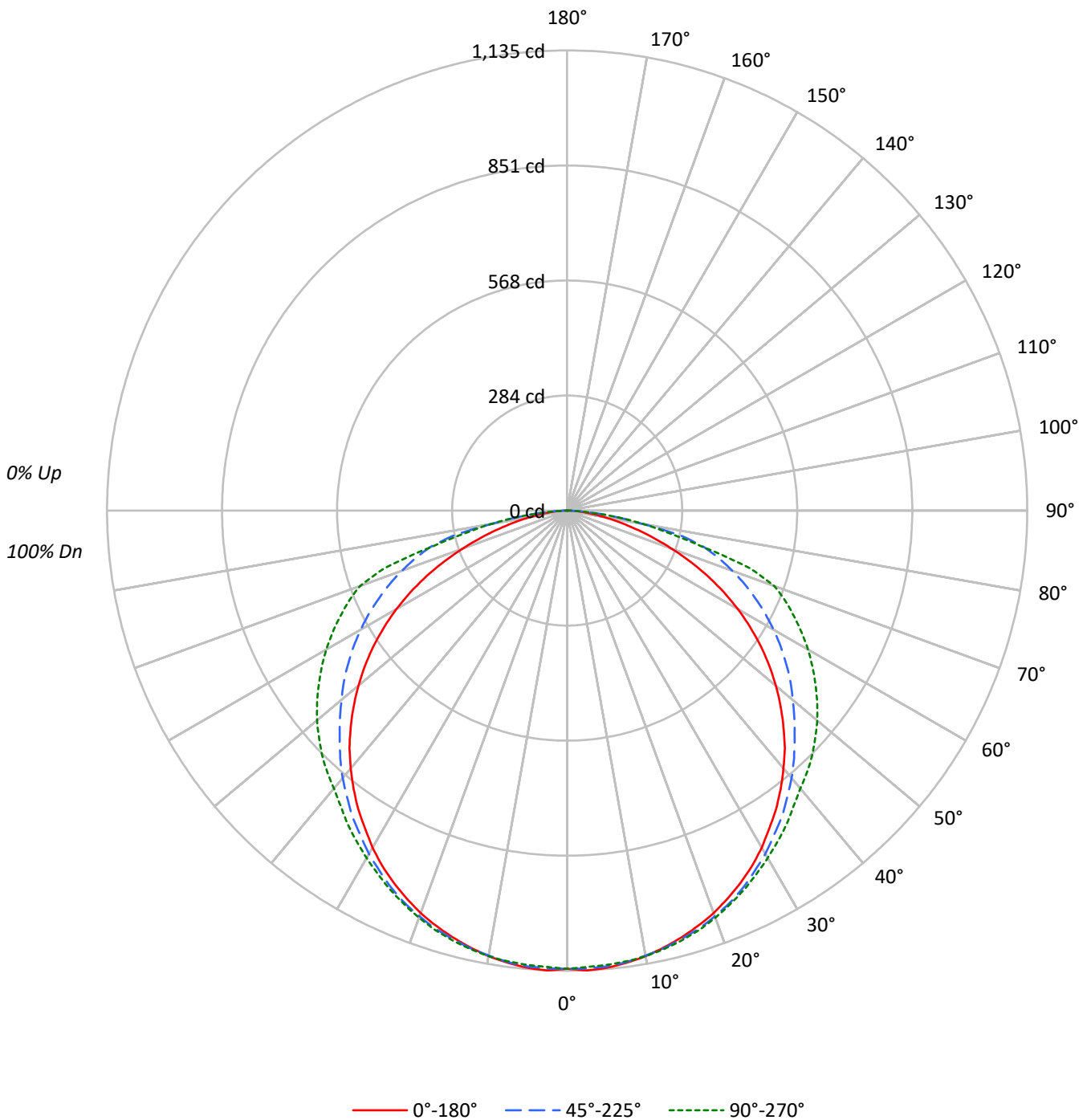
Input Watts (W): 41.013
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1521	1521	1521
5°	1529	1524	1519
10°	1525	1522	1525
15°	1518	1523	1528
20°	1513	1525	1530
25°	1503	1524	1532
30°	1491	1519	1538
35°	1476	1516	1551
40°	1458	1513	1572
45°	1436	1509	1626
50°	1407	1521	1686
55°	1367	1548	1754
60°	1308	1582	1847
65°	1218	1631	1967
70°	1077	1705	2140
75°	903	1825	1797
80°	721	1441	1495
85°	570	976	894



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	3.0
10°-20°	308.5	8.7
20°-30°	471.2	13.2
30°-40°	576.1	16.2
40°-50°	616.6	17.3
50°-60°	591.4	16.6
60°-70°	499.4	14.0
70°-80°	319.2	9.0
80°-90°	75.5	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°	886.9	24.9
0°-40°	1462.9	41.0
0°-60°	2671.0	74.9
0°-90°	3565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1130	1130	1130	1130	1130	
5°	1132	1125	1128	1127	1125	108
15°	1090	1086	1093	1097	1097	308
25°	1013	1011	1027	1030	1032	467
35°	898	906	923	935	944	562
45°	755	767	793	830	855	582
55°	583	602	660	720	748	520
65°	383	419	512	584	618	377
75°	174	247	351	358	346	187
85°	37	61	63	61	58	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1130.1	1130.1	1130.1	1130.1	1130.1
2.5°	1135.4	1128.4	1130.1	1130.1	1126.6
5°	1131.9	1124.9	1128.4	1126.6	1124.9
7.5°	1124.9	1119.6	1123.1	1123.1	1121.4
10°	1116.1	1110.8	1114.3	1116.1	1116.1
12.5°	1103.8	1100.3	1105.6	1105.6	1107.3
15°	1089.8	1086.3	1093.3	1096.8	1096.8
17.5°	1074.0	1072.2	1081.0	1082.8	1084.5
20°	1056.4	1054.7	1065.2	1065.2	1068.7
22.5°	1035.4	1033.6	1047.7	1047.7	1051.2
25°	1012.6	1010.8	1026.6	1030.1	1031.9
27.5°	988.0	986.2	1002.0	1007.3	1010.8
30°	959.9	959.9	977.5	984.5	989.7
32.5°	928.3	933.6	949.4	959.9	966.9
35°	898.5	905.5	923.1	935.3	944.1
37.5°	865.1	872.2	891.5	907.3	917.8
40°	830.1	838.8	861.6	879.2	895.0
42.5°	795.0	803.7	828.3	854.6	875.7
45°	754.6	766.9	793.2	830.1	854.6
47.5°	714.2	726.5	759.9	805.5	830.1
50°	672.1	686.2	726.5	779.2	805.5
52.5°	628.2	644.0	694.9	751.1	777.4
55°	582.6	601.9	659.8	719.5	747.6
57.5°	535.2	556.3	624.7	687.9	717.7
60°	486.1	512.4	587.9	654.6	686.2
62.5°	435.2	466.8	551.0	619.5	652.8
65°	382.6	419.4	512.4	584.4	617.7
67.5°	328.2	377.3	473.8	549.3	582.6
70°	273.8	331.7	433.5	510.7	544.0
72.5°	222.9	289.6	393.1	465.0	472.1
75°	173.7	247.4	351.0	358.0	345.7
77.5°	129.9	205.3	289.6	258.0	256.2
80°	93.0	165.0	186.0	191.3	193.0
82.5°	61.4	124.6	121.1	124.6	122.8
85°	36.9	61.4	63.2	61.4	57.9
87.5°	17.5	22.8	17.5	15.8	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)