

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: P230528

Luminaire Tested: **24CZ-LD5-65SE-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230528
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-LD5-65SE-RDP-UNV-L930-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3565.8 lumens
Efficiency: N/A
Efficacy: 59.4 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

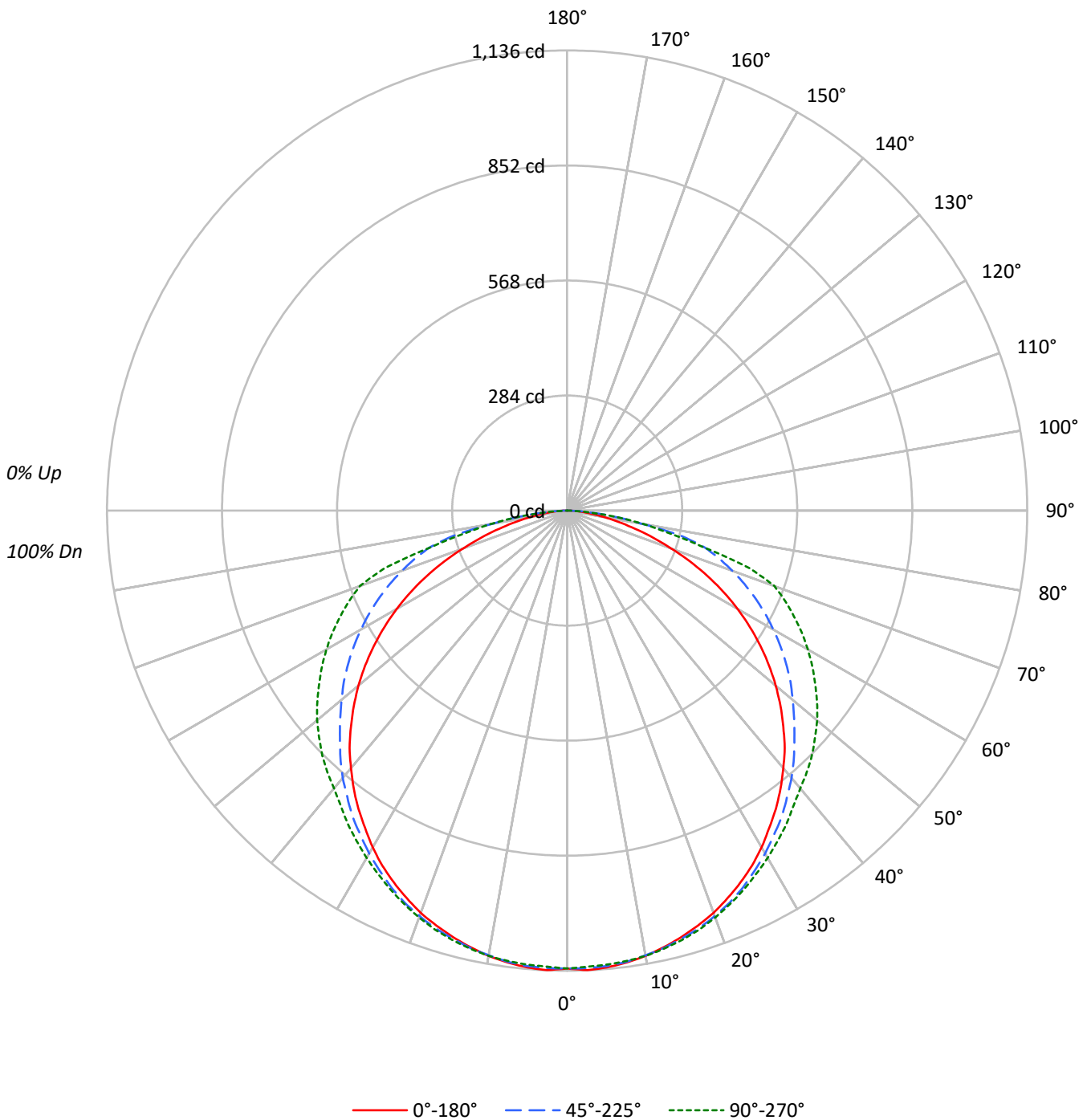
Input Watts (W): 60
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	1520
10°	1525	1523	1525
15°	1518	1523	1528
20°	1513	1525	1530
25°	1504	1524	1532
30°	1492	1519	1538
35°	1476	1517	1551
40°	1458	1514	1572
45°	1436	1510	1627
50°	1407	1521	1686
55°	1367	1548	1754
60°	1308	1582	1847
65°	1218	1632	1967
70°	1077	1705	2140
75°	904	1825	1798
80°	721	1442	1496
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°	471.3	13.2
30°-40°	576.2	16.2
40°-50°	616.7	17.3
50°-60°	591.6	16.6
60°-70°	499.5	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°	887.1	24.9
0°-40°	1463.2	41.0
0°-60°	2671.6	74.9
0°-90°	3565.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3565.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1130	1130	1130	1130	1130	
5°	1132	1125	1129	1127	1125	108
15°	1090	1086	1094	1097	1097	308
25°	1013	1011	1027	1030	1032	467
35°	899	906	923	936	944	562
45°	755	767	793	830	855	582
55°	583	602	660	720	748	520
65°	383	420	512	584	618	377
75°	174	248	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°	1130.4	1130.4	1130.4	1130.4	1130.4
2.5°	1135.6	1128.6	1130.4	1130.4	1126.9
5°	1132.1	1125.1	1128.6	1126.9	1125.1
7.5°	1125.1	1119.8	1123.4	1123.4	1121.6
10°	1116.3	1111.1	1114.6	1116.3	1116.3
12.5°	1104.1	1100.5	1105.8	1105.8	1107.6
15°	1090.0	1086.5	1093.5	1097.0	1097.0
17.5°	1074.2	1072.5	1081.2	1083.0	1084.7
20°	1056.7	1054.9	1065.4	1065.4	1068.9
22.5°	1035.6	1033.8	1047.9	1047.9	1051.4
25°	1012.8	1011.0	1026.8	1030.3	1032.1
27.5°	988.2	986.5	1002.2	1007.5	1011.0
30°	960.1	960.1	977.7	984.7	990.0
32.5°	928.5	933.8	949.6	960.1	967.1
35°	898.7	905.7	923.3	935.5	944.3
37.5°	865.3	872.4	891.7	907.5	918.0
40°	830.2	839.0	861.8	879.4	895.2
42.5°	795.1	803.9	828.5	854.8	875.9
45°	754.8	767.0	793.4	830.2	854.8
47.5°	714.4	726.7	760.0	805.7	830.2
50°	672.3	686.3	726.7	779.3	805.7
52.5°	628.4	644.2	695.1	751.2	777.6
55°	582.7	602.1	660.0	719.7	747.7
57.5°	535.4	556.4	624.9	688.1	717.9
60°	486.2	512.5	588.0	654.7	686.3
62.5°	435.3	466.9	551.1	619.6	653.0
65°	382.6	419.5	512.5	584.5	617.8
67.5°	328.2	377.4	473.9	549.4	582.7
70°	273.8	331.7	433.5	510.8	544.1
72.5°	222.9	289.6	393.2	465.1	472.2
75°	173.8	247.5	351.1	358.1	345.8
77.5°	129.9	205.4	289.6	258.0	256.3
80°	93.0	165.0	186.1	191.3	193.1
82.5°	61.4	124.6	121.1	124.6	122.9
85°	36.9	61.4	63.2	61.4	57.9
87.5°	17.6	22.8	17.6	15.8	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)