

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: P263842

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263842
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-LD5-65-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3886.0 lumens
Efficiency: N/A
Efficacy: 79.3 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

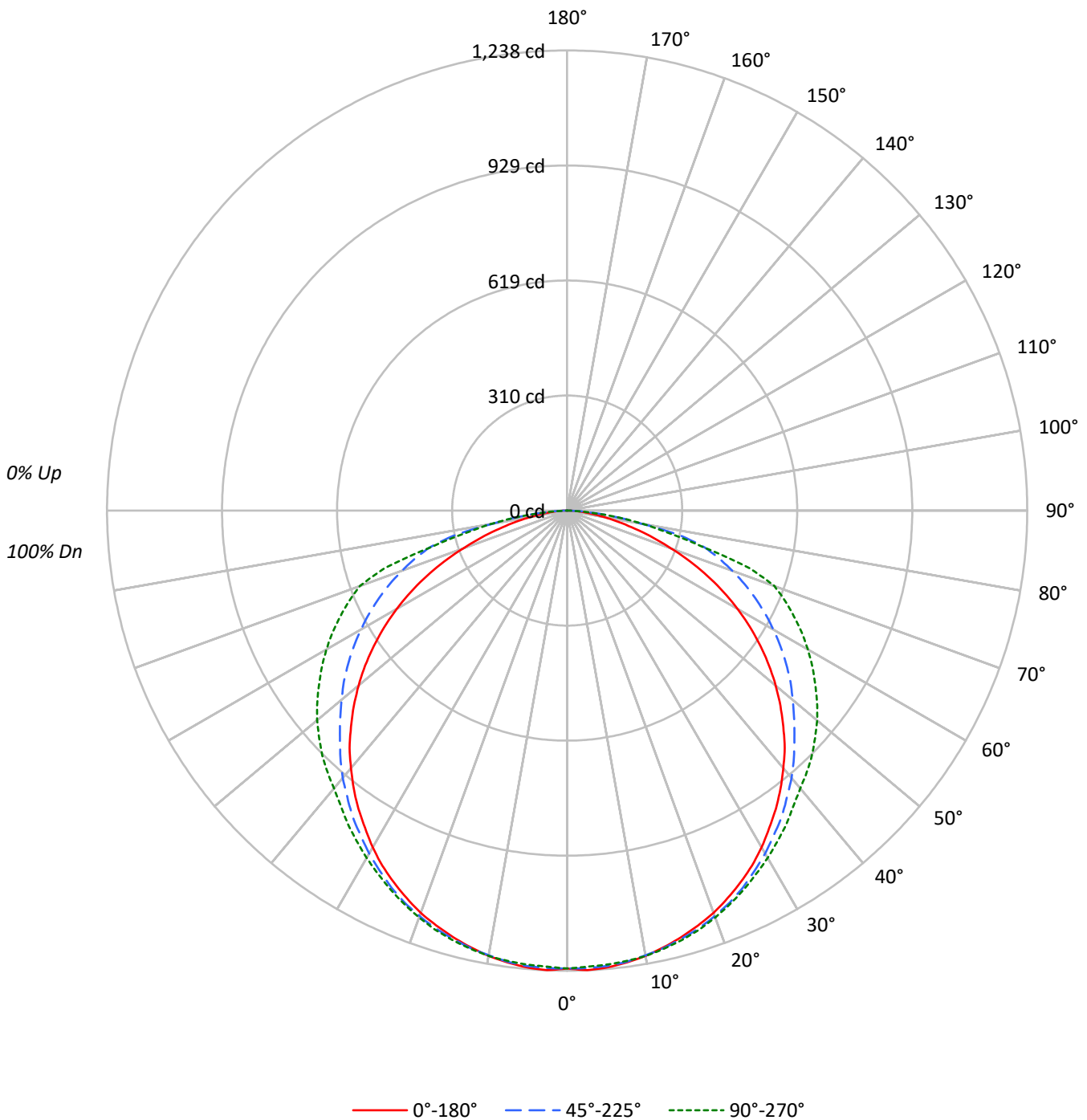
Input Watts (W): 49.011
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1658	1658	1658
5°	1666	1661	1656
10°	1662	1660	1662
15°	1655	1660	1665
20°	1649	1663	1668
25°	1639	1661	1670
30°	1626	1655	1676
35°	1609	1653	1690
40°	1589	1650	1714
45°	1565	1645	1773
50°	1533	1658	1838
55°	1490	1687	1912
60°	1426	1724	2013
65°	1328	1778	2144
70°	1174	1859	2333
75°	985	1989	1959
80°	786	1571	1630
85°	621	1064	974



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	3.0
10°-20°	336.3	8.7
20°-30°	513.6	13.2
30°-40°	627.9	16.2
40°-50°	672.1	17.3
50°-60°	644.7	16.6
60°-70°	544.3	14.0
70°-80°	347.9	9.0
80°-90°	82.3	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°	966.7	24.9
0°-40°	1594.7	41.0
0°-60°	2911.5	74.9
0°-90°	3886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1232	1232	1232	1232	1232	
5°	1234	1226	1230	1228	1226	117
15°	1188	1184	1192	1196	1196	335
25°	1104	1102	1119	1123	1125	509
35°	979	987	1006	1020	1029	612
45°	822	836	865	905	932	634
55°	635	656	719	784	815	567
65°	417	457	559	637	673	411
75°	189	270	383	390	377	204
85°	40	67	69	67	63	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1231.9	1231.9	1231.9	1231.9	1231.9
2.5°	1237.6	1230.0	1231.9	1231.9	1228.1
5°	1233.8	1226.2	1230.0	1228.1	1226.2
7.5°	1226.2	1220.4	1224.2	1224.2	1222.3
10°	1216.6	1210.9	1214.7	1216.6	1216.6
12.5°	1203.2	1199.4	1205.1	1205.1	1207.0
15°	1187.9	1184.1	1191.7	1195.5	1195.5
17.5°	1170.7	1168.8	1178.3	1180.2	1182.2
20°	1151.6	1149.6	1161.1	1161.1	1164.9
22.5°	1128.6	1126.7	1142.0	1142.0	1145.8
25°	1103.7	1101.8	1119.0	1122.9	1124.8
27.5°	1077.0	1075.0	1092.3	1098.0	1101.8
30°	1046.3	1046.3	1065.5	1073.1	1078.9
32.5°	1011.9	1017.7	1034.9	1046.3	1054.0
35°	979.4	987.0	1006.2	1019.6	1029.1
37.5°	943.0	950.7	971.7	989.0	1000.4
40°	904.8	914.4	939.2	958.4	975.6
42.5°	866.5	876.1	902.9	931.6	954.5
45°	822.5	835.9	864.6	904.8	931.6
47.5°	778.5	791.9	828.3	878.0	904.8
50°	732.6	747.9	791.9	849.3	878.0
52.5°	684.8	702.0	757.5	818.7	847.4
55°	635.1	656.1	719.2	784.3	814.9
57.5°	583.4	606.4	681.0	749.8	782.4
60°	529.9	558.6	640.8	713.5	747.9
62.5°	474.4	508.8	600.6	675.2	711.6
65°	417.0	457.2	558.6	637.0	673.3
67.5°	357.7	411.3	516.5	598.7	635.1
70°	298.4	361.5	472.5	556.6	593.0
72.5°	242.9	315.6	428.5	506.9	514.6
75°	189.4	269.7	382.6	390.2	376.8
77.5°	141.6	223.8	315.6	281.2	279.3
80°	101.4	179.8	202.8	208.5	210.4
82.5°	67.0	135.8	132.0	135.8	133.9
85°	40.2	67.0	68.9	67.0	63.1
87.5°	19.1	24.9	19.1	17.2	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)