

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: P263840

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263840
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-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3560.0 lumens
Efficiency: N/A
Efficacy: 72.9 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

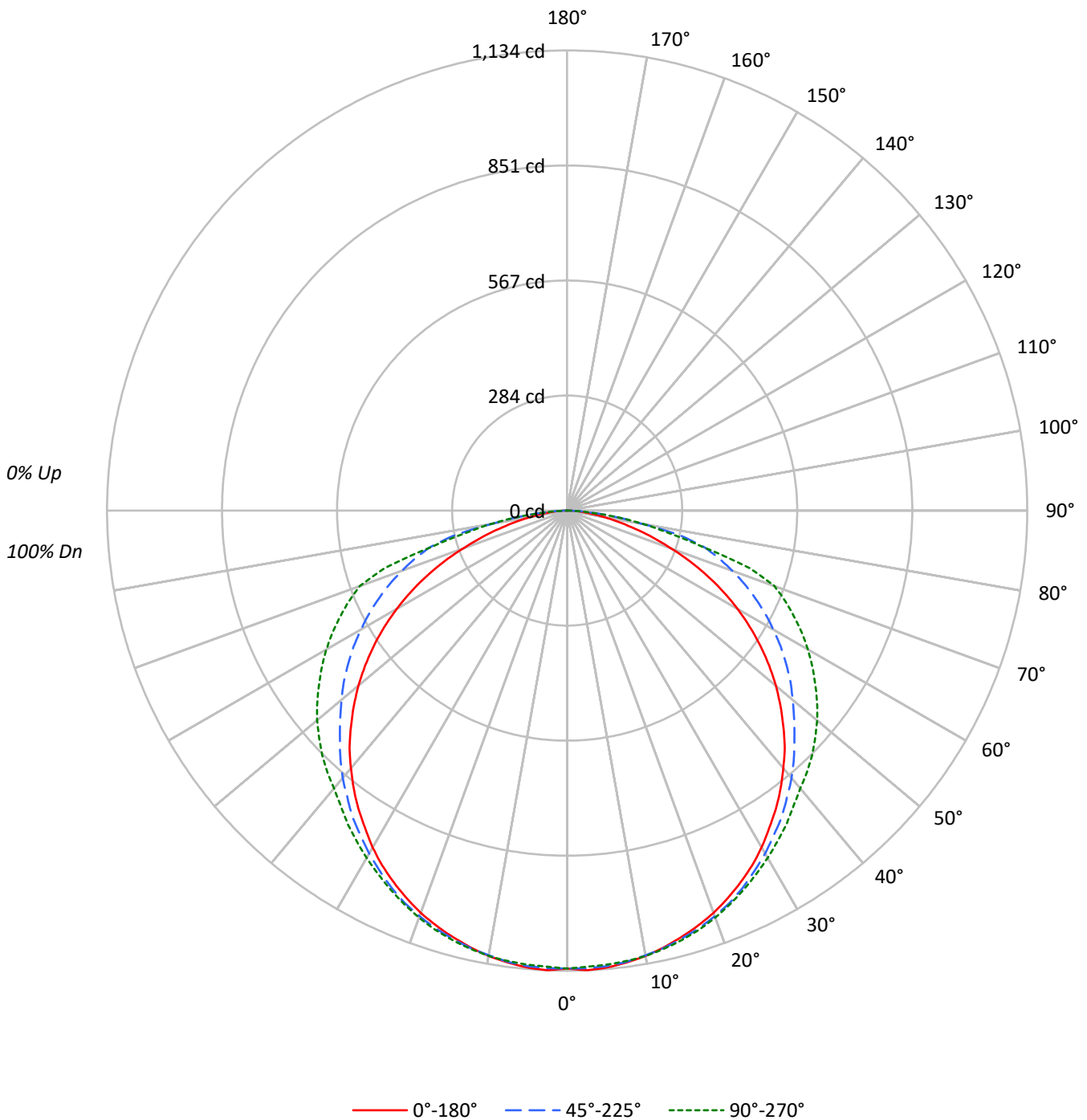
Input Watts (W): 48.825
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1518	1518	1518
5°	1527	1522	1517
10°	1523	1520	1523
15°	1516	1521	1526
20°	1510	1523	1528
25°	1501	1522	1530
30°	1489	1517	1536
35°	1474	1514	1549
40°	1456	1511	1570
45°	1434	1507	1624
50°	1405	1519	1684
55°	1365	1546	1751
60°	1306	1580	1844
65°	1216	1629	1964
70°	1076	1703	2137
75°	902	1822	1795
80°	720	1440	1494
85°	568	974	892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	3.0
10°-20°	308.1	8.7
20°-30°	470.5	13.2
30°-40°	575.3	16.2
40°-50°	615.7	17.3
50°-60°	590.6	16.6
60°-70°	498.7	14.0
70°-80°	318.7	9.0
80°-90°	75.4	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°	885.6	24.9
0°-40°	1460.9	41.0
0°-60°	2667.2	74.9
0°-90°	3560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3560.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1130	1123	1127	1125	1123	107
15°	1088	1085	1092	1095	1095	307
25°	1011	1009	1025	1029	1030	466
35°	897	904	922	934	943	561
45°	754	766	792	829	853	581
55°	582	601	659	718	746	519
65°	382	419	512	584	617	377
75°	174	247	350	358	345	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°	1128.5	1128.5	1128.5	1128.5	1128.5
2.5°	1133.8	1126.8	1128.5	1128.5	1125.0
5°	1130.3	1123.3	1126.8	1125.0	1123.3
7.5°	1123.3	1118.0	1121.5	1121.5	1119.8
10°	1114.5	1109.3	1112.8	1114.5	1114.5
12.5°	1102.3	1098.8	1104.0	1104.0	1105.8
15°	1088.2	1084.7	1091.7	1095.3	1095.3
17.5°	1072.5	1070.7	1079.5	1081.2	1083.0
20°	1054.9	1053.2	1063.7	1063.7	1067.2
22.5°	1033.9	1032.2	1046.2	1046.2	1049.7
25°	1011.1	1009.4	1025.2	1028.7	1030.4
27.5°	986.6	984.9	1000.6	1005.9	1009.4
30°	958.6	958.6	976.1	983.1	988.4
32.5°	927.0	932.3	948.1	958.6	965.6
35°	897.2	904.2	921.8	934.0	942.8
37.5°	863.9	870.9	890.2	906.0	916.5
40°	828.9	837.7	860.4	878.0	893.7
42.5°	793.8	802.6	827.1	853.4	874.5
45°	753.5	765.8	792.1	828.9	853.4
47.5°	713.2	725.5	758.8	804.4	828.9
50°	671.2	685.2	725.5	778.1	804.4
52.5°	627.4	643.1	694.0	750.0	776.3
55°	581.8	601.1	658.9	718.5	746.5
57.5°	534.5	555.5	623.9	686.9	716.7
60°	485.4	511.7	587.1	653.6	685.2
62.5°	434.6	466.1	550.3	618.6	651.9
65°	382.0	418.8	511.7	583.6	616.8
67.5°	327.7	376.8	473.1	548.5	581.8
70°	273.4	331.2	432.8	510.0	543.2
72.5°	222.6	289.1	392.5	464.4	471.4
75°	173.5	247.1	350.5	357.5	345.2
77.5°	129.7	205.0	289.1	257.6	255.9
80°	92.9	164.7	185.8	191.0	192.8
82.5°	61.3	124.4	120.9	124.4	122.7
85°	36.8	61.3	63.1	61.3	57.8
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)