

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: P263664

Luminaire Tested: **24CZ-LD5-40-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263664
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-LD5-40-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2876.0 lumens
Efficiency: N/A
Efficacy: 99.8 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

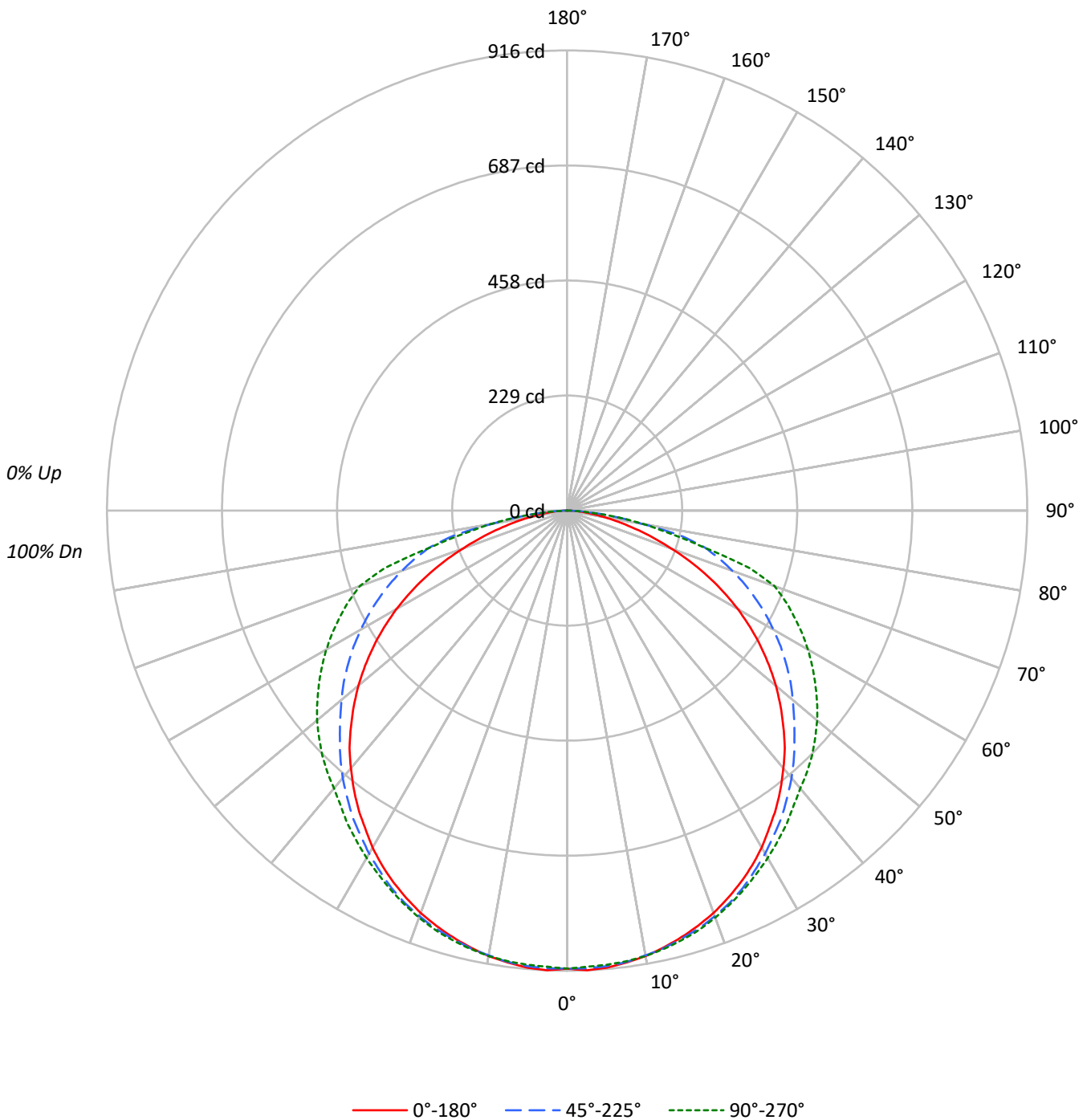
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1227	1227	1227
5°	1233	1229	1226
10°	1230	1228	1230
15°	1225	1229	1232
20°	1220	1230	1235
25°	1213	1230	1236
30°	1203	1225	1241
35°	1191	1223	1251
40°	1176	1221	1268
45°	1158	1218	1312
50°	1135	1227	1360
55°	1103	1249	1415
60°	1055	1276	1489
65°	982	1316	1586
70°	869	1376	1727
75°	729	1472	1450
80°	581	1163	1206
85°	459	787	721



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	3.0
10°-20°	248.9	8.7
20°-30°	380.1	13.2
30°-40°	464.7	16.2
40°-50°	497.4	17.3
50°-60°	477.1	16.6
60°-70°	402.9	14.0
70°-80°	257.5	9.0
80°-90°	60.9	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°	715.5	24.9
0°-40°	1180.2	41.0
0°-60°	2154.8	74.9
0°-90°	2876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	913	908	910	909	908	87
15°	879	876	882	885	885	248
25°	817	815	828	831	832	376
35°	725	730	745	755	762	453
45°	609	619	640	670	689	470
55°	470	486	532	580	603	419
65°	309	338	413	471	498	304
75°	140	200	283	289	279	151
85°	30	50	51	50	47	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	911.7	911.7	911.7	911.7	911.7
2.5°	916.0	910.3	911.7	911.7	908.9
5°	913.1	907.5	910.3	908.9	907.5
7.5°	907.5	903.2	906.1	906.1	904.6
10°	900.4	896.1	899.0	900.4	900.4
12.5°	890.5	887.6	891.9	891.9	893.3
15°	879.2	876.3	882.0	884.8	884.8
17.5°	866.4	865.0	872.1	873.5	874.9
20°	852.3	850.8	859.3	859.3	862.2
22.5°	835.3	833.9	845.2	845.2	848.0
25°	816.9	815.4	828.2	831.0	832.4
27.5°	797.0	795.6	808.4	812.6	815.4
30°	774.4	774.4	788.5	794.2	798.5
32.5°	748.9	753.2	765.9	774.4	780.1
35°	724.8	730.5	744.7	754.6	761.7
37.5°	697.9	703.6	719.2	731.9	740.4
40°	669.6	676.7	695.1	709.3	722.0
42.5°	641.3	648.4	668.2	689.4	706.4
45°	608.8	618.7	639.9	669.6	689.4
47.5°	576.2	586.1	613.0	649.8	669.6
50°	542.2	553.5	586.1	628.6	649.8
52.5°	506.8	519.6	560.6	605.9	627.2
55°	470.0	485.6	532.3	580.4	603.1
57.5°	431.8	448.8	504.0	555.0	579.0
60°	392.2	413.4	474.3	528.1	553.5
62.5°	351.1	376.6	444.5	499.7	526.6
65°	308.6	338.4	413.4	471.4	498.3
67.5°	264.7	304.4	382.2	443.1	470.0
70°	220.9	267.6	349.7	412.0	438.9
72.5°	179.8	233.6	317.1	375.2	380.8
75°	140.2	199.6	283.1	288.8	278.9
77.5°	104.8	165.6	233.6	208.1	206.7
80°	75.0	133.1	150.1	154.3	155.7
82.5°	49.5	100.5	97.7	100.5	99.1
85°	29.7	49.5	51.0	49.5	46.7
87.5°	14.2	18.4	14.2	12.7	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)