

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: P263670

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263670
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-LD5-45-RDP-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2943.0 lumens
Efficiency: N/A
Efficacy: 94.2 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

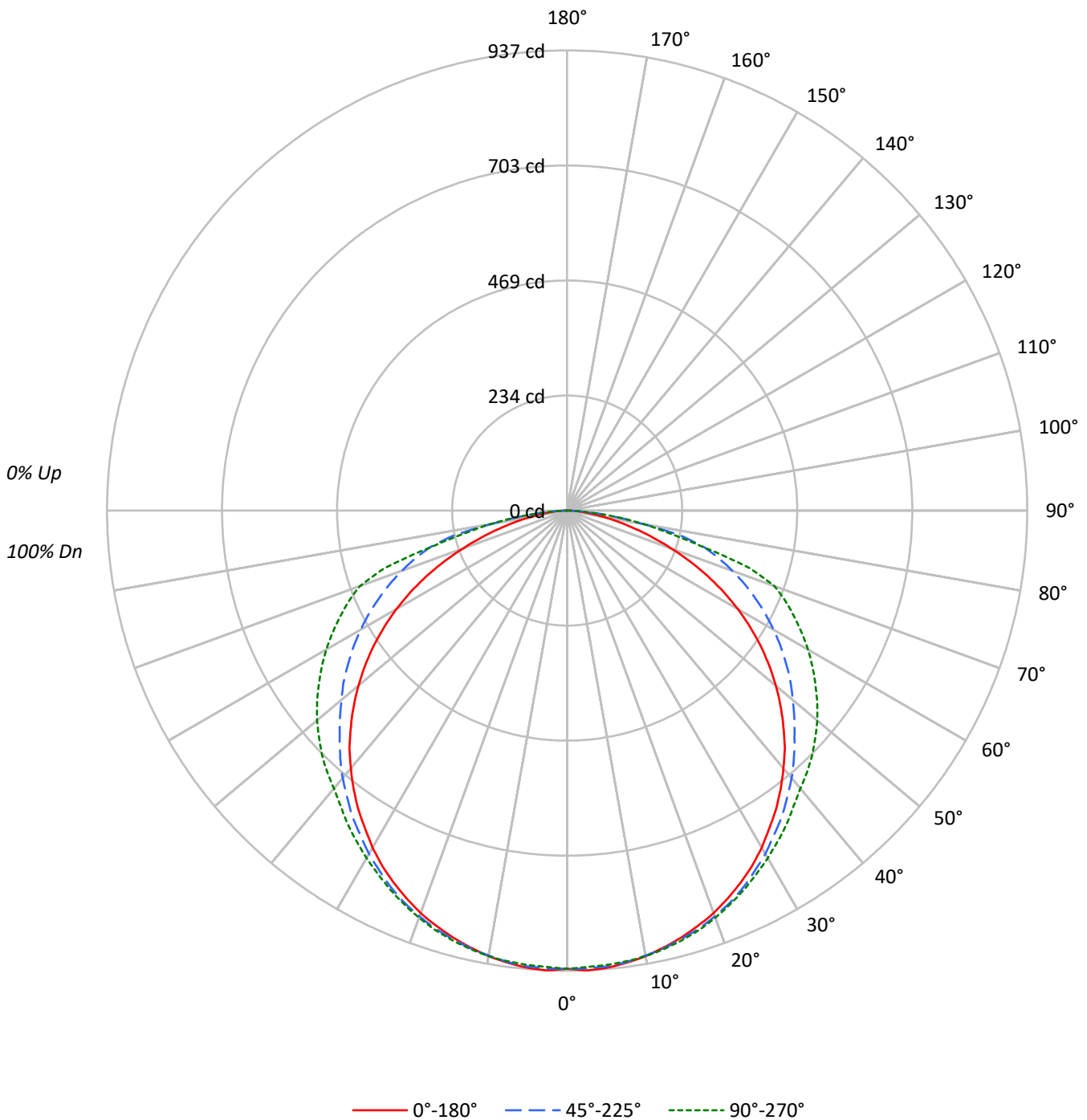
Input Watts (W): 31.248
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1255	1255	1255
5°	1262	1258	1254
10°	1259	1257	1259
15°	1253	1257	1261
20°	1249	1259	1263
25°	1241	1258	1265
30°	1231	1254	1269
35°	1218	1252	1280
40°	1203	1249	1298
45°	1185	1246	1342
50°	1161	1256	1392
55°	1128	1278	1448
60°	1080	1306	1524
65°	1005	1347	1623
70°	889	1408	1767
75°	745	1506	1484
80°	595	1190	1235
85°	469	806	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	3.0
10°-20°	254.7	8.7
20°-30°	389.0	13.2
30°-40°	475.6	16.2
40°-50°	509.0	17.3
50°-60°	488.3	16.6
60°-70°	412.3	14.0
70°-80°	263.5	9.0
80°-90°	62.3	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°	732.1	24.9
0°-40°	1207.7	41.0
0°-60°	2205.0	74.9
0°-90°	2943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	934	929	932	930	929	89
15°	900	897	902	905	905	254
25°	836	834	848	850	852	385
35°	742	748	762	772	779	464
45°	623	633	655	685	706	480
55°	481	497	545	594	617	429
65°	316	346	423	482	510	311
75°	143	204	290	296	285	154
85°	30	51	52	51	48	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	933.0	933.0	933.0	933.0	933.0
2.5°	937.3	931.5	933.0	933.0	930.1
5°	934.4	928.6	931.5	930.1	928.6
7.5°	928.6	924.3	927.2	927.2	925.7
10°	921.4	917.0	919.9	921.4	921.4
12.5°	911.2	908.3	912.7	912.7	914.1
15°	899.6	896.7	902.5	905.4	905.4
17.5°	886.6	885.1	892.4	893.8	895.3
20°	872.1	870.7	879.4	879.4	882.3
22.5°	854.7	853.3	864.9	864.9	867.8
25°	835.9	834.4	847.5	850.4	851.8
27.5°	815.6	814.2	827.2	831.5	834.4
30°	792.4	792.4	806.9	812.7	817.1
32.5°	766.4	770.7	783.7	792.4	798.2
35°	741.7	747.5	762.0	772.2	779.4
37.5°	714.2	720.0	735.9	749.0	757.7
40°	685.2	692.5	711.3	725.8	738.8
42.5°	656.3	663.5	683.8	705.5	722.9
45°	622.9	633.1	654.8	685.2	705.5
47.5°	589.6	599.8	627.3	664.9	685.2
50°	554.8	566.4	599.8	643.2	664.9
52.5°	518.6	531.7	573.7	620.0	641.8
55°	481.0	496.9	544.7	594.0	617.1
57.5°	441.9	459.2	515.7	567.9	592.5
60°	401.3	423.0	485.3	540.4	566.4
62.5°	359.3	385.4	454.9	511.4	538.9
65°	315.8	346.2	423.0	482.4	509.9
67.5°	270.9	311.5	391.1	453.4	481.0
70°	226.0	273.8	357.8	421.6	449.1
72.5°	184.0	239.0	324.5	383.9	389.7
75°	143.4	204.3	289.7	295.5	285.4
77.5°	107.2	169.5	239.0	213.0	211.5
80°	76.8	136.2	153.6	157.9	159.4
82.5°	50.7	102.9	100.0	102.9	101.4
85°	30.4	50.7	52.2	50.7	47.8
87.5°	14.5	18.8	14.5	13.0	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)