

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: P263811

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263811
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-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2938.0 lumens
Efficiency: N/A
Efficacy: 90.8 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

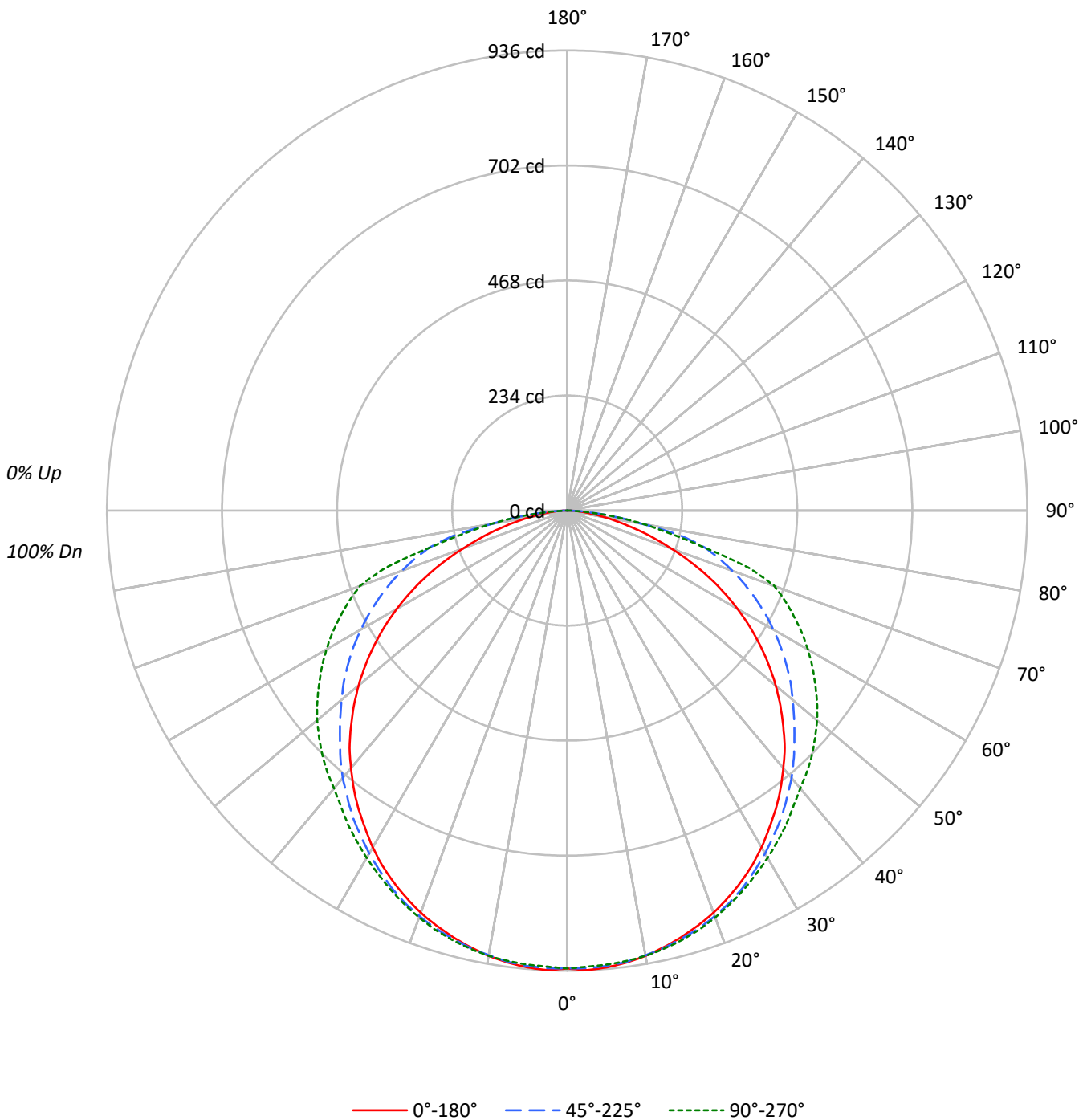
Input Watts (W): 32.364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1253	1253	1253
5°	1260	1256	1252
10°	1257	1255	1257
15°	1251	1255	1259
20°	1247	1257	1261
25°	1239	1256	1262
30°	1229	1251	1267
35°	1216	1249	1278
40°	1202	1247	1296
45°	1183	1244	1340
50°	1159	1253	1389
55°	1126	1276	1445
60°	1078	1304	1522
65°	1004	1344	1621
70°	887	1405	1764
75°	744	1503	1481
80°	594	1188	1233
85°	469	804	736



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	3.0
10°-20°	254.2	8.7
20°-30°	388.3	13.2
30°-40°	474.8	16.2
40°-50°	508.2	17.3
50°-60°	487.4	16.6
60°-70°	411.6	14.0
70°-80°	263.0	9.0
80°-90°	62.2	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°	730.9	24.9
0°-40°	1205.6	41.0
0°-60°	2201.2	74.9
0°-90°	2938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2938.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	931	931	931	931	931	
5°	933	927	930	928	927	89
15°	898	895	901	904	904	254
25°	834	833	846	849	850	385
35°	740	746	761	771	778	463
45°	622	632	654	684	704	480
55°	480	496	544	593	616	428
65°	315	346	422	482	509	311
75°	143	204	289	295	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°	931.4	931.4	931.4	931.4	931.4
2.5°	935.7	929.9	931.4	931.4	928.5
5°	932.8	927.0	929.9	928.5	927.0
7.5°	927.0	922.7	925.6	925.6	924.1
10°	919.8	915.5	918.4	919.8	919.8
12.5°	909.7	906.8	911.1	911.1	912.6
15°	898.1	895.2	901.0	903.9	903.9
17.5°	885.1	883.6	890.9	892.3	893.8
20°	870.6	869.2	877.9	877.9	880.8
22.5°	853.3	851.8	863.4	863.4	866.3
25°	834.5	833.0	846.0	848.9	850.4
27.5°	814.2	812.8	825.8	830.1	833.0
30°	791.1	791.1	805.5	811.3	815.7
32.5°	765.1	769.4	782.4	791.1	796.9
35°	740.5	746.3	760.7	770.8	778.1
37.5°	713.0	718.8	734.7	747.7	756.4
40°	684.1	691.3	710.1	724.6	737.6
42.5°	655.1	662.4	682.6	704.3	721.7
45°	621.9	632.0	653.7	684.1	704.3
47.5°	588.6	598.7	626.2	663.8	684.1
50°	553.9	565.5	598.7	642.1	663.8
52.5°	517.7	530.8	572.7	619.0	640.7
55°	480.1	496.1	543.8	593.0	616.1
57.5°	441.1	458.5	514.9	566.9	591.5
60°	400.6	422.3	484.5	539.4	565.5
62.5°	358.7	384.7	454.1	510.5	538.0
65°	315.3	345.6	422.3	481.6	509.1
67.5°	270.4	310.9	390.5	452.7	480.1
70°	225.6	273.3	357.2	420.9	448.3
72.5°	183.7	238.6	324.0	383.3	389.0
75°	143.2	203.9	289.2	295.0	284.9
77.5°	107.0	169.2	238.6	212.6	211.1
80°	76.7	135.9	153.3	157.6	159.1
82.5°	50.6	102.7	99.8	102.7	101.2
85°	30.4	50.6	52.1	50.6	47.7
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)