

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: P263636

Luminaire Tested: **24CZ-LD5-45SE-RDP-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263636
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-LD5-45SE-RDP-UNV-L93050-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2941.8 lumens
Efficiency: N/A
Efficacy: 80.7 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

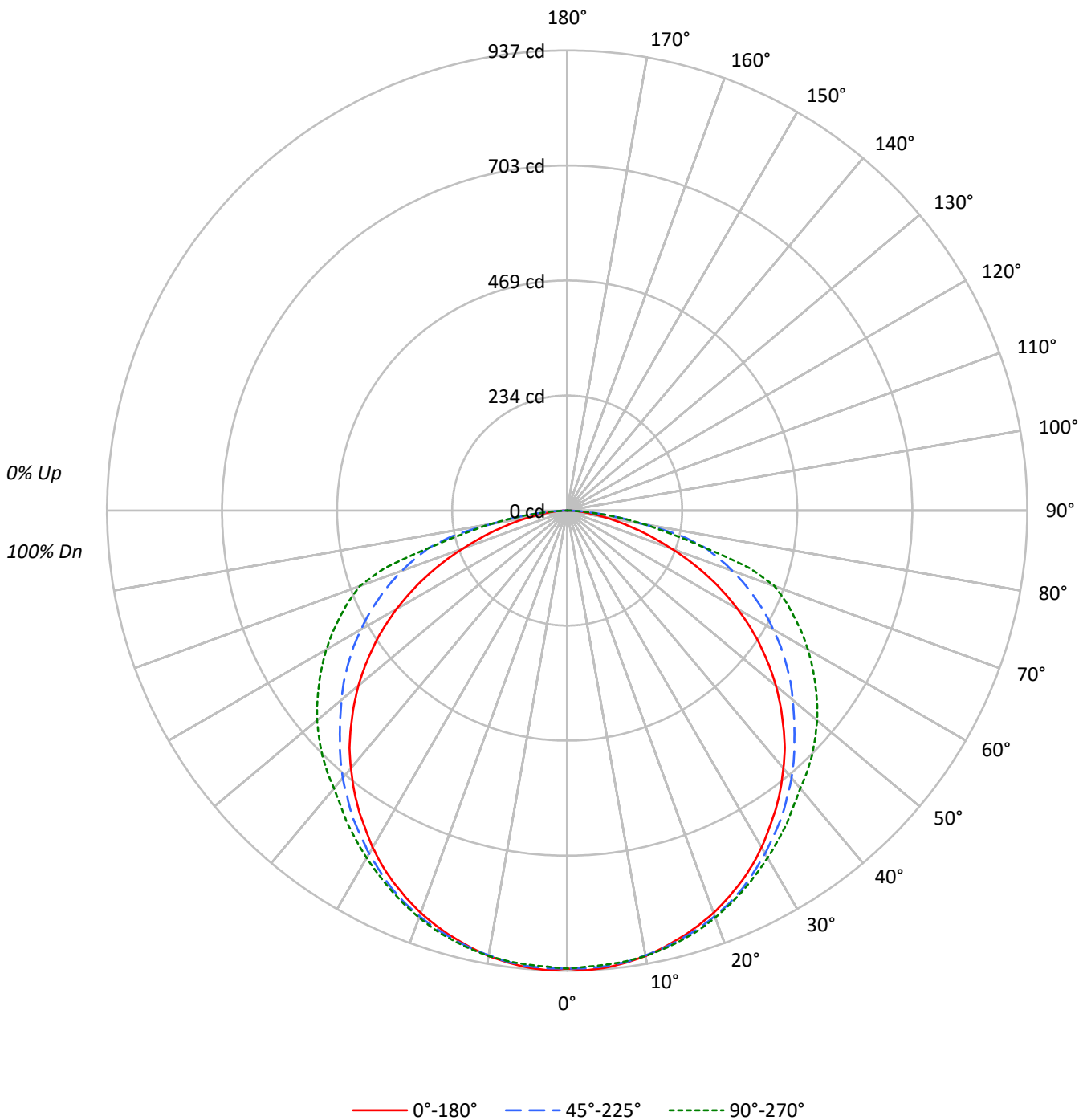
Input Watts (W): 36.436656
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1261	1258	1254
10°	1258	1256	1258
15°	1253	1257	1261
20°	1248	1259	1263
25°	1241	1258	1264
30°	1231	1253	1269
35°	1218	1251	1280
40°	1203	1249	1297
45°	1185	1246	1342
50°	1161	1255	1391
55°	1128	1277	1447
60°	1079	1305	1524
65°	1005	1346	1623
70°	889	1407	1766
75°	745	1506	1483
80°	595	1189	1234
85°	469	804	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	3.0
10°-20°	254.6	8.7
20°-30°	388.8	13.2
30°-40°	475.4	16.2
40°-50°	508.8	17.3
50°-60°	488.1	16.6
60°-70°	412.1	14.0
70°-80°	263.4	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°	731.8	24.9
0°-40°	1207.2	41.0
0°-60°	2204.1	74.9
0°-90°	2941.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2941.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	934	928	931	930	928	89
15°	899	896	902	905	905	254
25°	836	834	847	850	852	385
35°	741	747	762	772	779	464
45°	623	633	655	685	705	480
55°	481	497	544	594	617	429
65°	316	346	423	482	510	311
75°	143	204	290	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°	932.6	932.6	932.6	932.6	932.6
2.5°	936.9	931.1	932.6	932.6	929.7
5°	934.0	928.2	931.1	929.7	928.2
7.5°	928.2	923.9	926.8	926.8	925.4
10°	921.0	916.7	919.6	921.0	921.0
12.5°	910.9	908.0	912.3	912.3	913.8
15°	899.3	896.4	902.2	905.1	905.1
17.5°	886.3	884.8	892.0	893.5	894.9
20°	871.8	870.3	879.0	879.0	881.9
22.5°	854.4	852.9	864.5	864.5	867.4
25°	835.6	834.1	847.2	850.1	851.5
27.5°	815.3	813.8	826.9	831.2	834.1
30°	792.1	792.1	806.6	812.4	816.7
32.5°	766.1	770.4	783.4	792.1	797.9
35°	741.4	747.2	761.7	771.9	779.1
37.5°	713.9	719.7	735.6	748.7	757.4
40°	685.0	692.2	711.0	725.5	738.5
42.5°	656.0	663.2	683.5	705.2	722.6
45°	622.7	632.8	654.6	685.0	705.2
47.5°	589.4	599.5	627.0	664.7	685.0
50°	554.6	566.2	599.5	643.0	664.7
52.5°	518.4	531.5	573.5	619.8	641.5
55°	480.8	496.7	544.5	593.7	616.9
57.5°	441.7	459.1	515.5	567.7	592.3
60°	401.1	422.9	485.1	540.2	566.2
62.5°	359.1	385.2	454.7	511.2	538.7
65°	315.7	346.1	422.9	482.2	509.7
67.5°	270.8	311.3	391.0	453.3	480.8
70°	225.9	273.7	357.7	421.4	448.9
72.5°	183.9	238.9	324.4	383.8	389.5
75°	143.4	204.2	289.6	295.4	285.3
77.5°	107.2	169.4	238.9	212.9	211.4
80°	76.8	136.1	153.5	157.8	159.3
82.5°	50.7	102.8	99.9	102.8	101.4
85°	30.4	50.7	52.1	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)