

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: P263584

Luminaire Tested: **24CZ-LD5-45-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263584
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-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2861.4 lumens
Efficiency: N/A
Efficacy: 88.7 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

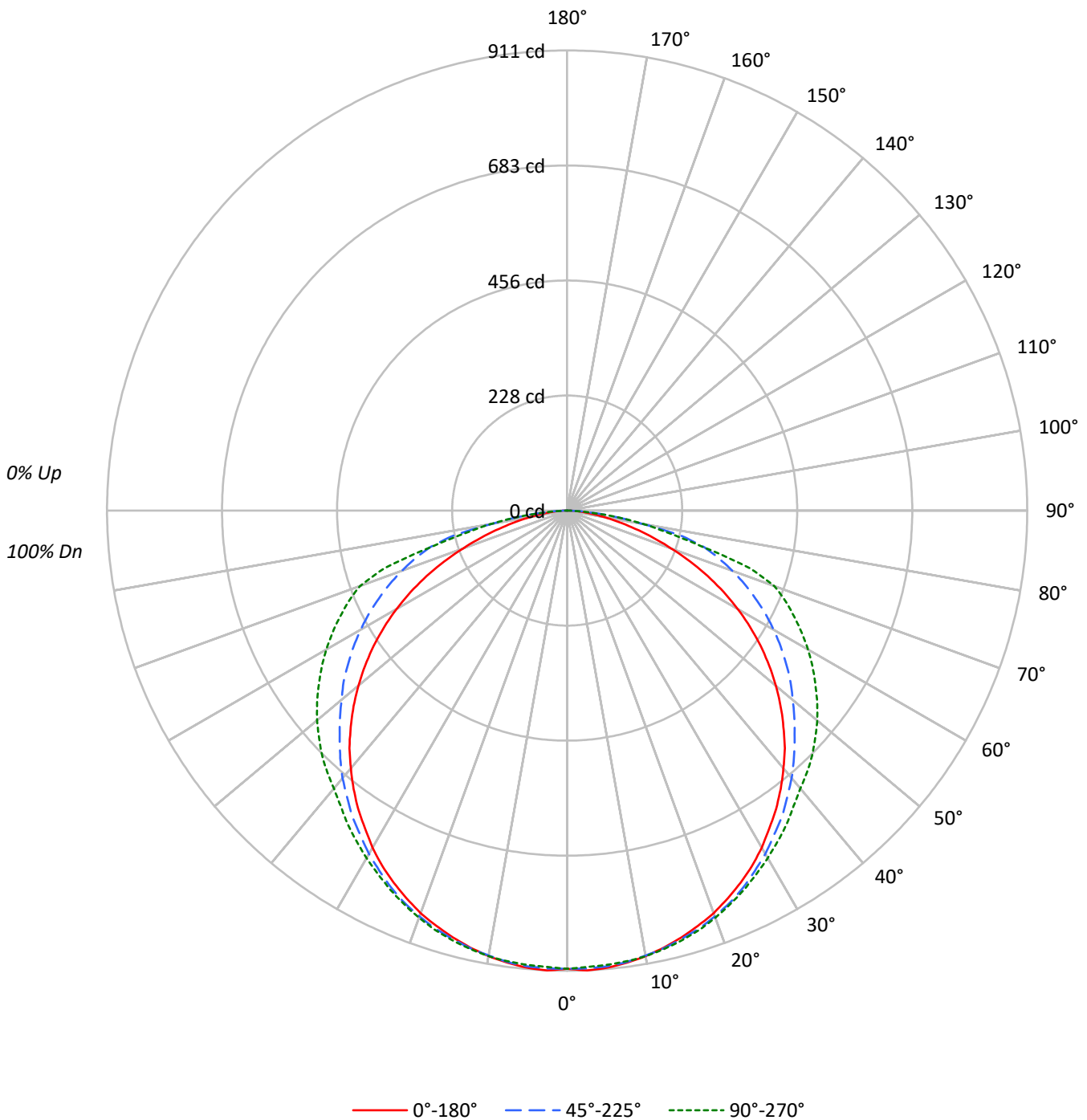
Input Watts (W): 32.251284
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1220	1220	1220
5°	1227	1223	1219
10°	1224	1222	1224
15°	1218	1222	1226
20°	1214	1224	1228
25°	1207	1223	1230
30°	1197	1219	1234
35°	1185	1217	1245
40°	1170	1215	1262
45°	1153	1212	1305
50°	1129	1221	1353
55°	1097	1242	1407
60°	1050	1270	1482
65°	978	1309	1578
70°	864	1369	1718
75°	725	1464	1443
80°	579	1157	1200
85°	457	783	718



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	3.0
10°-20°	247.6	8.7
20°-30°	378.2	13.2
30°-40°	462.4	16.2
40°-50°	494.9	17.3
50°-60°	474.7	16.6
60°-70°	400.8	14.0
70°-80°	256.2	9.0
80°-90°	60.6	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°	711.8	24.9
0°-40°	1174.2	41.0
0°-60°	2143.9	74.9
0°-90°	2861.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2861.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	908	903	906	904	903	86
15°	875	872	878	880	880	247
25°	813	811	824	827	828	375
35°	721	727	741	751	758	451
45°	606	616	637	666	686	467
55°	468	483	530	578	600	417
65°	307	337	411	469	496	303
75°	139	199	282	287	278	150
85°	30	49	51	49	46	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.1	907.1	907.1	907.1	907.1
2.5°	911.3	905.7	907.1	907.1	904.3
5°	908.5	902.9	905.7	904.3	902.9
7.5°	902.9	898.7	901.5	901.5	900.1
10°	895.8	891.6	894.4	895.8	895.8
12.5°	886.0	883.2	887.4	887.4	888.8
15°	874.7	871.9	877.5	880.3	880.3
17.5°	862.0	860.6	867.7	869.1	870.5
20°	848.0	846.5	855.0	855.0	857.8
22.5°	831.0	829.6	840.9	840.9	843.7
25°	812.7	811.3	824.0	826.8	828.2
27.5°	793.0	791.6	804.3	808.5	811.3
30°	770.5	770.5	784.6	790.2	794.4
32.5°	745.1	749.4	762.0	770.5	776.1
35°	721.2	726.8	740.9	750.8	757.8
37.5°	694.4	700.1	715.5	728.2	736.7
40°	666.2	673.3	691.6	705.7	718.4
42.5°	638.1	645.1	664.8	686.0	702.9
45°	605.7	615.5	636.7	666.2	686.0
47.5°	573.3	583.1	609.9	646.5	666.2
50°	539.5	550.7	583.1	625.4	646.5
52.5°	504.3	516.9	557.8	602.9	624.0
55°	467.6	483.1	529.6	577.5	600.0
57.5°	429.6	446.5	501.4	552.2	576.1
60°	390.2	411.3	471.9	525.4	550.7
62.5°	349.3	374.7	442.3	497.2	524.0
65°	307.1	336.6	411.3	469.0	495.8
67.5°	263.4	302.8	380.3	440.9	467.6
70°	219.7	266.2	347.9	409.9	436.7
72.5°	178.9	232.4	315.5	373.3	378.9
75°	139.4	198.6	281.7	287.3	277.5
77.5°	104.2	164.8	232.4	207.1	205.6
80°	74.7	132.4	149.3	153.5	154.9
82.5°	49.3	100.0	97.2	100.0	98.6
85°	29.6	49.3	50.7	49.3	46.5
87.5°	14.1	18.3	14.1	12.7	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)