

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: P263632

Luminaire Tested: **24CZ-LD5-45SE-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263632
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-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2450.5 lumens
Efficiency: N/A
Efficacy: 68.5 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

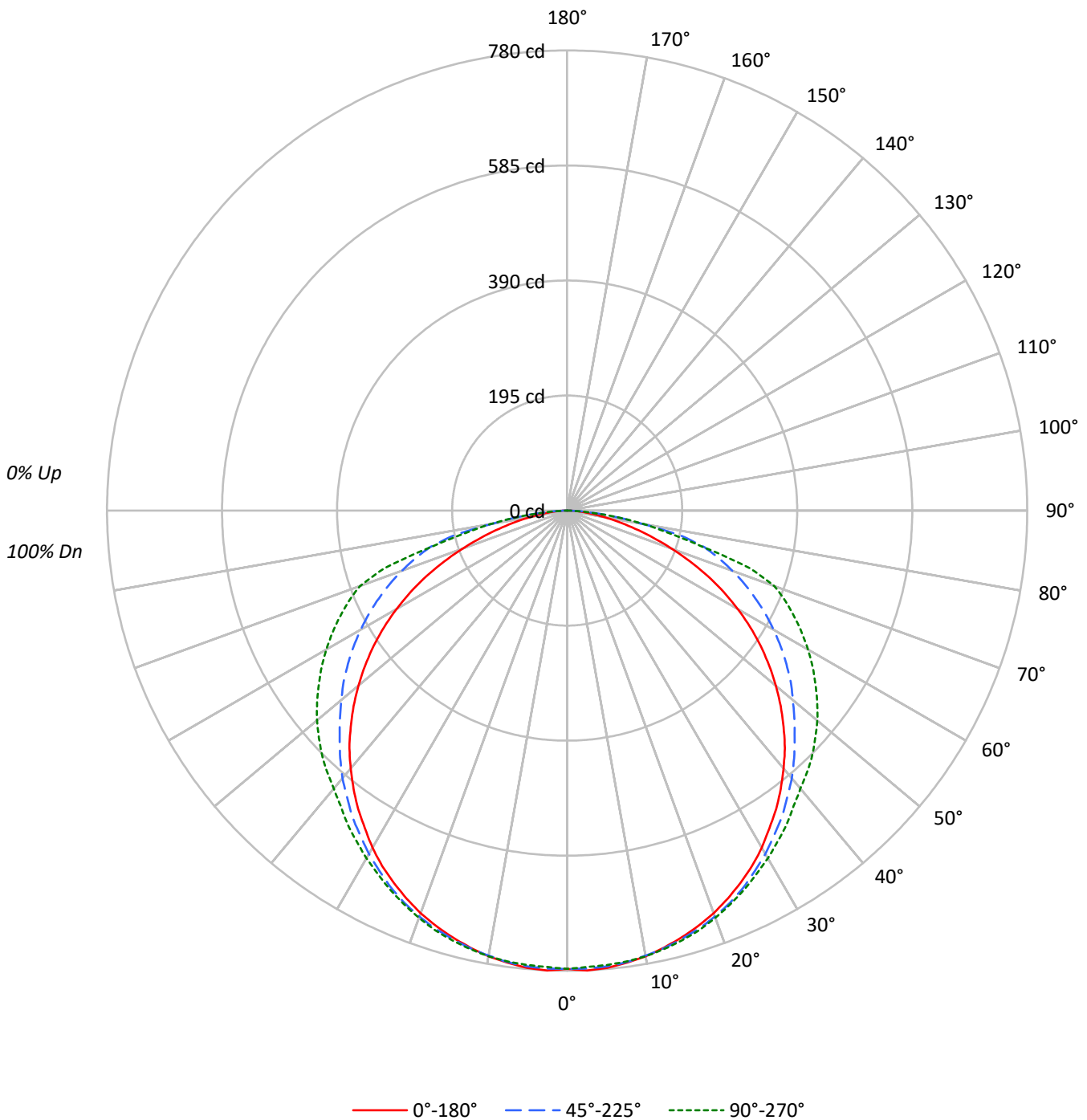
Input Watts (W): 35.772264
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1045	1045	1045
5°	1051	1048	1044
10°	1048	1047	1048
15°	1043	1047	1050
20°	1040	1048	1052
25°	1033	1048	1053
30°	1025	1044	1057
35°	1014	1042	1066
40°	1002	1040	1081
45°	987	1037	1118
50°	967	1045	1159
55°	939	1064	1206
60°	899	1087	1269
65°	837	1121	1352
70°	740	1172	1471
75°	621	1254	1235
80°	495	991	1028
85°	391	670	614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	3.0
10°-20°	212.0	8.7
20°-30°	323.9	13.2
30°-40°	396.0	16.2
40°-50°	423.8	17.3
50°-60°	406.6	16.6
60°-70°	343.3	14.0
70°-80°	219.4	9.0
80°-90°	51.9	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°	609.6	24.9
0°-40°	1005.6	41.0
0°-60°	1836.0	74.9
0°-90°	2450.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2450.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	778	773	776	774	773	74
15°	749	747	752	754	754	211
25°	696	695	706	708	709	321
35°	618	622	634	643	649	386
45°	519	527	545	571	587	400
55°	400	414	454	495	514	357
65°	263	288	352	402	425	259
75°	119	170	241	246	238	129
85°	25	42	43	42	40	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	776.8	776.8	776.8	776.8	776.8
2.5°	780.4	775.6	776.8	776.8	774.4
5°	778.0	773.2	775.6	774.4	773.2
7.5°	773.2	769.6	772.0	772.0	770.8
10°	767.2	763.6	766.0	767.2	767.2
12.5°	758.7	756.3	759.9	759.9	761.1
15°	749.1	746.7	751.5	753.9	753.9
17.5°	738.2	737.0	743.1	744.3	745.5
20°	726.2	725.0	732.2	732.2	734.6
22.5°	711.7	710.5	720.1	720.1	722.5
25°	696.0	694.8	705.7	708.1	709.3
27.5°	679.1	677.9	688.8	692.4	694.8
30°	659.8	659.8	671.9	676.7	680.3
32.5°	638.1	641.7	652.6	659.8	664.6
35°	617.6	622.4	634.5	642.9	649.0
37.5°	594.7	599.5	612.8	623.6	630.9
40°	570.6	576.6	592.3	604.3	615.2
42.5°	546.4	552.5	569.4	587.4	601.9
45°	518.7	527.1	545.2	570.6	587.4
47.5°	490.9	499.4	522.3	553.7	570.6
50°	462.0	471.6	499.4	535.6	553.7
52.5°	431.8	442.7	477.7	516.3	534.4
55°	400.5	413.7	453.6	494.6	513.9
57.5°	367.9	382.4	429.4	472.9	493.4
60°	334.1	352.2	404.1	449.9	471.6
62.5°	299.2	320.9	378.8	425.8	448.7
65°	263.0	288.3	352.2	401.7	424.6
67.5°	225.6	259.3	325.7	377.6	400.5
70°	188.2	228.0	297.9	351.0	373.9
72.5°	153.2	199.0	270.2	319.7	324.5
75°	119.4	170.1	241.3	246.1	237.6
77.5°	89.3	141.1	199.0	177.3	176.1
80°	63.9	113.4	127.9	131.5	132.7
82.5°	42.2	85.6	83.2	85.6	84.4
85°	25.3	42.2	43.4	42.2	39.8
87.5°	12.1	15.7	12.1	10.9	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)