

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: P263499

Luminaire Tested: **24CZ-LD5-35-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263499
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-LD5-35-RDP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2568.0 lumens
Efficiency: N/A
Efficacy: 103.8 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

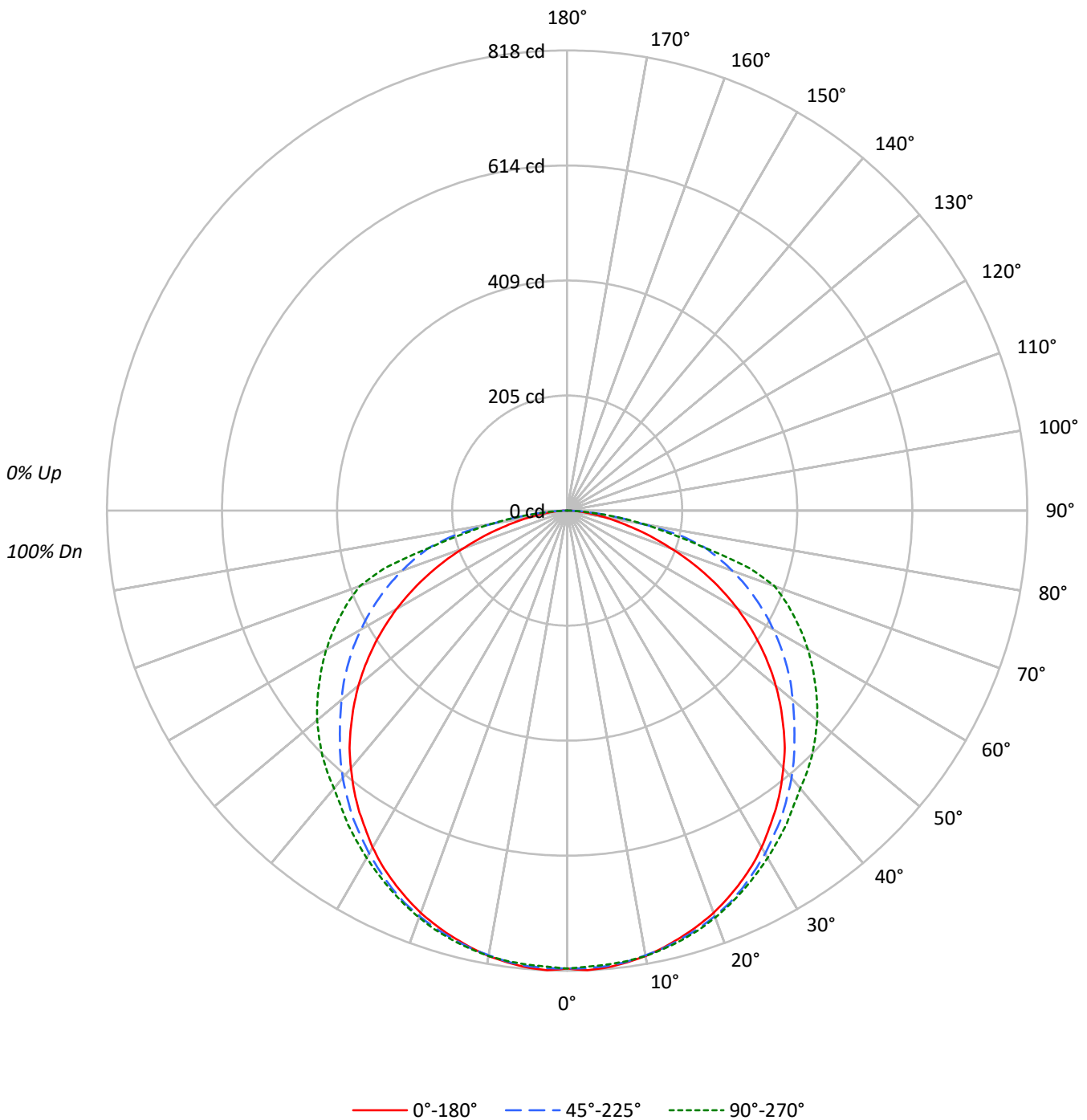
Input Watts (W): 24.73614
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1095	1095	1095
5°	1101	1098	1094
10°	1098	1097	1098
15°	1093	1097	1101
20°	1090	1099	1102
25°	1083	1098	1103
30°	1074	1094	1108
35°	1063	1092	1117
40°	1050	1090	1132
45°	1034	1087	1171
50°	1013	1095	1214
55°	985	1115	1263
60°	942	1140	1330
65°	877	1175	1417
70°	776	1228	1542
75°	650	1314	1294
80°	519	1038	1078
85°	409	702	644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	3.0
10°-20°	222.2	8.7
20°-30°	339.4	13.2
30°-40°	415.0	16.2
40°-50°	444.2	17.3
50°-60°	426.0	16.6
60°-70°	359.7	14.0
70°-80°	229.9	9.0
80°-90°	54.4	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°	638.8	24.9
0°-40°	1053.8	41.0
0°-60°	1924.0	74.9
0°-90°	2568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2568.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	814	814	814	814	814	
5°	815	810	813	812	810	77
15°	785	782	788	790	790	222
25°	729	728	740	742	743	336
35°	647	652	665	674	680	405
45°	544	552	571	598	616	419
55°	420	434	475	518	538	375
65°	276	302	369	421	445	272
75°	125	178	253	258	249	135
85°	26	44	46	44	42	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	814.1	814.1	814.1	814.1	814.1
2.5°	817.9	812.8	814.1	814.1	811.5
5°	815.3	810.3	812.8	811.5	810.3
7.5°	810.3	806.5	809.0	809.0	807.8
10°	804.0	800.2	802.7	804.0	804.0
12.5°	795.1	792.6	796.4	796.4	797.6
15°	785.0	782.5	787.5	790.1	790.1
17.5°	773.6	772.4	778.7	779.9	781.2
20°	761.0	759.7	767.3	767.3	769.8
22.5°	745.8	744.6	754.7	754.7	757.2
25°	729.4	728.1	739.5	742.0	743.3
27.5°	711.7	710.4	721.8	725.6	728.1
30°	691.5	691.5	704.1	709.2	712.9
32.5°	668.7	672.5	683.9	691.5	696.5
35°	647.2	652.3	664.9	673.8	680.1
37.5°	623.2	628.3	642.2	653.5	661.1
40°	597.9	604.2	620.7	633.3	644.7
42.5°	572.6	579.0	596.7	615.6	630.8
45°	543.6	552.4	571.4	597.9	615.6
47.5°	514.5	523.3	547.4	580.2	597.9
50°	484.1	494.3	523.3	561.3	580.2
52.5°	452.5	463.9	500.6	541.0	560.0
55°	419.7	433.6	475.3	518.3	538.5
57.5°	385.5	400.7	450.0	495.5	517.0
60°	350.2	369.1	423.5	471.5	494.3
62.5°	313.5	336.2	396.9	446.2	470.2
65°	275.6	302.1	369.1	420.9	445.0
67.5°	236.4	271.8	341.3	395.7	419.7
70°	197.2	238.9	312.2	367.9	391.9
72.5°	160.5	208.6	283.2	335.0	340.0
75°	125.1	178.2	252.8	257.9	249.0
77.5°	93.5	147.9	208.6	185.8	184.6
80°	67.0	118.8	134.0	137.8	139.1
82.5°	44.2	89.8	87.2	89.8	88.5
85°	26.5	44.2	45.5	44.2	41.7
87.5°	12.6	16.4	12.6	11.4	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)