

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: P263082

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40-SQP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2548.0 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

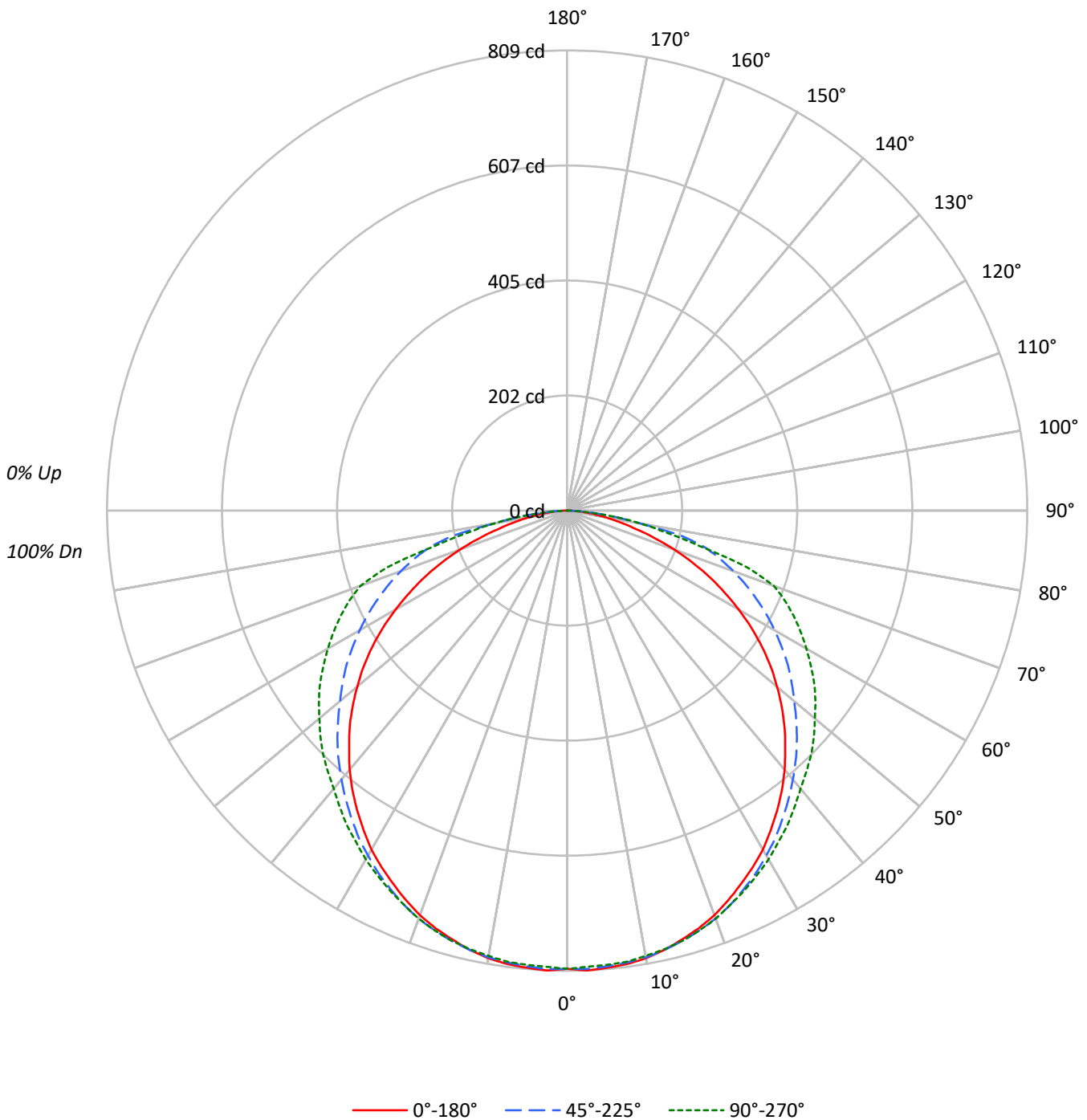
Input Watts (W): 28.215456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	63	58	56
4	81	68	59	52	79	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	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	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°	1084	1084	1084
5°	1090	1086	1083
10°	1091	1090	1086
15°	1087	1091	1091
20°	1084	1093	1093
25°	1075	1090	1094
30°	1069	1088	1100
35°	1057	1085	1109
40°	1045	1084	1121
45°	1029	1087	1154
50°	1008	1091	1190
55°	982	1111	1244
60°	939	1133	1307
65°	880	1169	1400
70°	787	1222	1522
75°	650	1307	1259
80°	530	1010	1020
85°	426	670	630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	3.0
10°-20°	220.7	8.7
20°-30°	337.4	13.2
30°-40°	412.6	16.2
40°-50°	441.5	17.3
50°-60°	422.8	16.6
60°-70°	357.6	14.0
70°-80°	226.7	8.9
80°-90°	52.1	2.0
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°	634.6	24.9
0°-40°	1047.2	41.1
0°-60°	1911.5	75.0
0°-90°	2548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2548.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	806	806	806	806	806	
5°	807	803	804	803	802	77
15°	780	779	783	783	783	220
25°	724	724	734	737	737	334
35°	644	648	661	670	675	403
45°	541	550	571	595	607	417
55°	418	432	474	513	530	373
65°	276	303	367	417	440	272
75°	125	176	251	250	242	136
85°	28	42	43	40	41	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	805.5	805.5	805.5	805.5	805.5
2.5°	809.4	805.5	806.8	805.5	802.8
5°	806.8	802.8	804.2	802.8	801.5
7.5°	804.2	800.2	801.5	800.2	800.2
10°	798.9	794.9	797.6	796.3	794.9
12.5°	791.0	788.4	791.0	789.7	789.7
15°	780.5	779.1	783.1	783.1	783.1
17.5°	769.9	768.6	773.9	773.9	773.9
20°	756.8	755.5	763.4	763.4	763.4
22.5°	741.0	739.7	750.2	750.2	750.2
25°	723.9	723.9	734.4	737.0	737.0
27.5°	706.8	706.8	718.6	722.6	722.6
30°	688.3	688.3	700.2	705.4	708.1
32.5°	666.0	668.6	681.8	688.3	691.0
35°	643.6	647.5	660.7	669.9	675.2
37.5°	619.9	623.8	639.6	650.2	656.7
40°	594.9	600.2	617.3	630.4	638.3
42.5°	567.3	575.1	594.9	612.0	622.5
45°	540.9	550.1	571.2	594.9	606.7
47.5°	512.0	522.5	546.2	576.5	588.3
50°	481.7	492.2	521.2	555.4	568.6
52.5°	451.4	463.3	497.5	534.3	550.1
55°	418.5	431.7	473.8	513.3	530.4
57.5°	384.3	400.1	447.5	489.6	508.0
60°	348.8	368.5	421.2	465.9	485.7
62.5°	311.9	335.6	394.8	442.2	463.3
65°	276.4	302.7	367.2	417.2	439.6
67.5°	238.2	271.1	339.6	393.5	414.6
70°	200.1	238.2	310.6	365.9	386.9
72.5°	161.9	207.9	281.7	331.7	331.7
75°	125.0	176.4	251.4	250.1	242.2
77.5°	94.8	147.4	206.6	176.4	177.7
80°	68.4	118.5	130.3	130.3	131.6
82.5°	46.1	90.8	84.2	82.9	85.5
85°	27.6	42.1	43.4	39.5	40.8
87.5°	13.2	14.5	11.8	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)