

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: P263382

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263382
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-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2542.0 lumens
Efficiency: N/A
Efficacy: 87.3 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

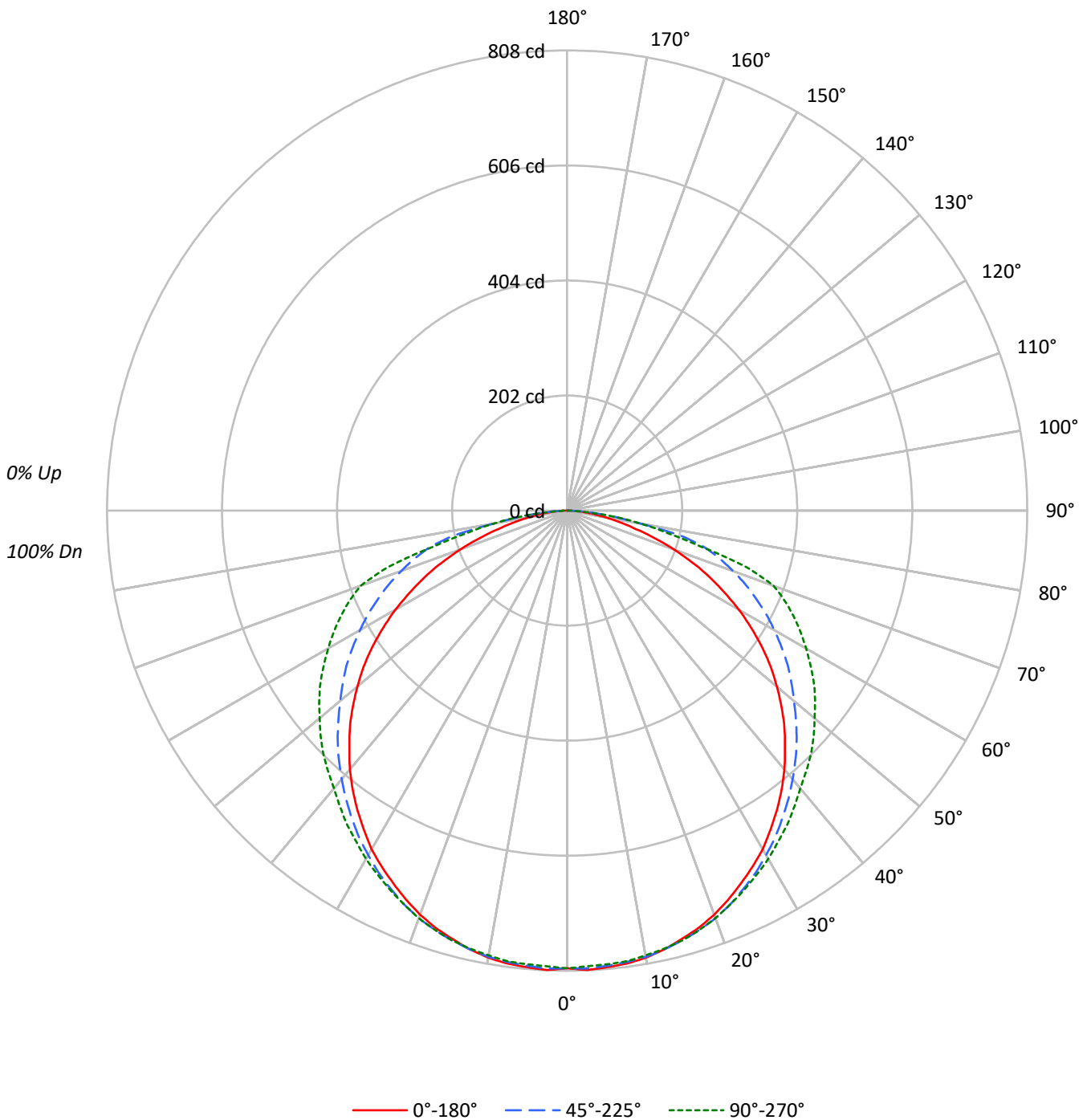
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1081	1081	1081
5°	1087	1084	1080
10°	1089	1087	1084
15°	1085	1088	1088
20°	1081	1090	1090
25°	1072	1088	1092
30°	1067	1085	1097
35°	1055	1083	1106
40°	1042	1082	1118
45°	1027	1084	1152
50°	1006	1088	1187
55°	979	1109	1241
60°	936	1131	1304
65°	878	1166	1396
70°	785	1219	1519
75°	648	1304	1256
80°	529	1007	1017
85°	426	668	628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	3.0
10°-20°	220.2	8.7
20°-30°	336.6	13.2
30°-40°	411.6	16.2
40°-50°	440.5	17.3
50°-60°	421.8	16.6
60°-70°	356.8	14.0
70°-80°	226.2	8.9
80°-90°	52.0	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°	633.1	24.9
0°-40°	1044.8	41.1
0°-60°	1907.0	75.0
0°-90°	2542.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2542.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	805	801	802	801	800	77
15°	779	777	781	781	781	220
25°	722	722	733	735	735	333
35°	642	646	659	668	674	402
45°	540	549	570	594	605	416
55°	418	431	473	512	529	372
65°	276	302	366	416	439	272
75°	125	176	251	250	242	136
85°	28	42	43	39	41	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	803.6	803.6	803.6	803.6	803.6
2.5°	807.5	803.6	804.9	803.6	800.9
5°	804.9	800.9	802.3	800.9	799.6
7.5°	802.3	798.3	799.6	798.3	798.3
10°	797.0	793.1	795.7	794.4	793.1
12.5°	789.1	786.5	789.1	787.8	787.8
15°	778.6	777.3	781.3	781.3	781.3
17.5°	768.1	766.8	772.1	772.1	772.1
20°	755.0	753.7	761.6	761.6	761.6
22.5°	739.2	737.9	748.4	748.4	748.4
25°	722.2	722.2	732.7	735.3	735.3
27.5°	705.1	705.1	716.9	720.9	720.9
30°	686.7	686.7	698.5	703.8	706.4
32.5°	664.4	667.0	680.1	686.7	689.3
35°	642.1	646.0	659.1	668.3	673.6
37.5°	618.4	622.4	638.1	648.6	655.2
40°	593.5	598.7	615.8	628.9	636.8
42.5°	565.9	573.8	593.5	610.6	621.1
45°	539.7	548.8	569.9	593.5	605.3
47.5°	510.8	521.3	544.9	575.1	586.9
50°	480.6	491.1	520.0	554.1	567.2
52.5°	450.4	462.2	496.3	533.1	548.8
55°	417.5	430.7	472.7	512.1	529.2
57.5°	383.4	399.2	446.4	488.4	506.8
60°	348.0	367.6	420.2	464.8	484.5
62.5°	311.2	334.8	393.9	441.2	462.2
65°	275.7	302.0	366.3	416.2	438.6
67.5°	237.7	270.5	338.8	392.6	413.6
70°	199.6	237.7	309.9	365.0	386.0
72.5°	161.5	207.5	281.0	330.9	330.9
75°	124.7	175.9	250.8	249.5	241.6
77.5°	94.5	147.1	206.1	175.9	177.3
80°	68.3	118.2	130.0	130.0	131.3
82.5°	46.0	90.6	84.0	82.7	85.3
85°	27.6	42.0	43.3	39.4	40.7
87.5°	13.1	14.4	11.8	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)