

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: P263473

Luminaire Tested: **24CZ-LD5-40SE-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263473
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-LD5-40SE-SQP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2543.0 lumens
Efficiency: N/A
Efficacy: 80.0 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

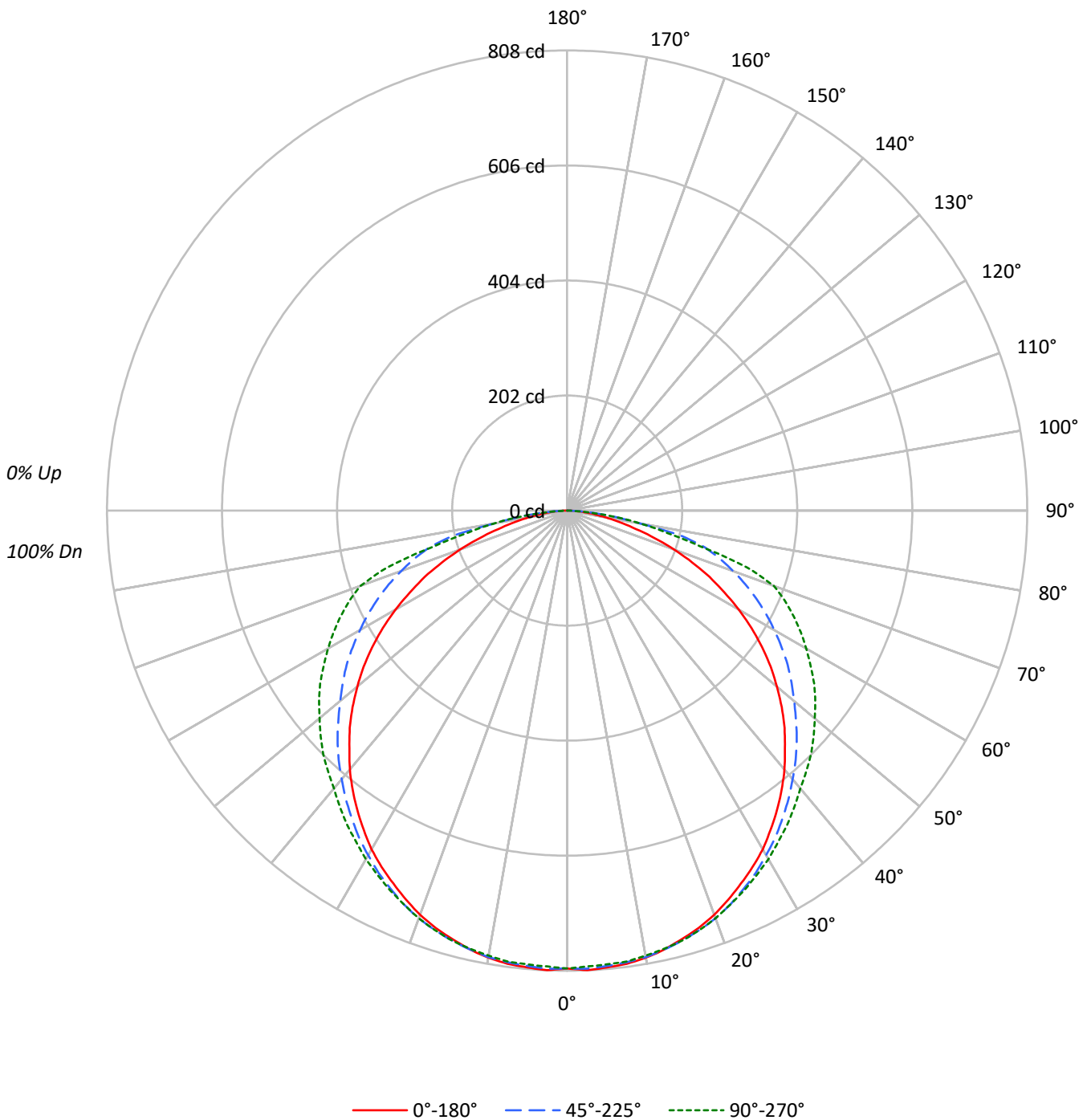
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	1082	1082	1082
5°	1088	1084	1080
10°	1089	1088	1084
15°	1085	1089	1089
20°	1081	1091	1091
25°	1073	1088	1092
30°	1067	1086	1098
35°	1055	1083	1107
40°	1043	1082	1119
45°	1027	1085	1152
50°	1006	1089	1188
55°	980	1109	1242
60°	937	1131	1304
65°	878	1167	1397
70°	786	1220	1519
75°	649	1304	1256
80°	529	1007	1018
85°	426	668	628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	3.0
10°-20°	220.3	8.7
20°-30°	336.7	13.2
30°-40°	411.8	16.2
40°-50°	440.6	17.3
50°-60°	421.9	16.6
60°-70°	357.0	14.0
70°-80°	226.3	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°	633.4	24.9
0°-40°	1045.2	41.1
0°-60°	1907.8	75.0
0°-90°	2543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	805	801	803	801	800	77
15°	779	778	782	782	782	220
25°	722	722	733	736	736	333
35°	642	646	659	669	674	402
45°	540	549	570	594	606	416
55°	418	431	473	512	529	373
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°	803.9	803.9	803.9	803.9	803.9
2.5°	807.8	803.9	805.2	803.9	801.3
5°	805.2	801.3	802.6	801.3	799.9
7.5°	802.6	798.6	799.9	798.6	798.6
10°	797.3	793.4	796.0	794.7	793.4
12.5°	789.4	786.8	789.4	788.1	788.1
15°	778.9	777.6	781.6	781.6	781.6
17.5°	768.4	767.1	772.4	772.4	772.4
20°	755.3	754.0	761.9	761.9	761.9
22.5°	739.5	738.2	748.7	748.7	748.7
25°	722.5	722.5	733.0	735.6	735.6
27.5°	705.4	705.4	717.2	721.1	721.1
30°	687.0	687.0	698.8	704.1	706.7
32.5°	664.7	667.3	680.4	687.0	689.6
35°	642.3	646.3	659.4	668.6	673.8
37.5°	618.7	622.6	638.4	648.9	655.5
40°	593.7	599.0	616.1	629.2	637.1
42.5°	566.1	574.0	593.7	610.8	621.3
45°	539.9	549.1	570.1	593.7	605.5
47.5°	511.0	521.5	545.1	575.3	587.2
50°	480.8	491.3	520.2	554.3	567.5
52.5°	450.5	462.4	496.5	533.3	549.1
55°	417.7	430.8	472.9	512.3	529.4
57.5°	383.6	399.3	446.6	488.6	507.0
60°	348.1	367.8	420.3	465.0	484.7
62.5°	311.3	335.0	394.1	441.4	462.4
65°	275.8	302.1	366.5	416.4	438.7
67.5°	237.8	270.6	338.9	392.8	413.8
70°	199.7	237.8	310.0	365.2	386.2
72.5°	161.6	207.5	281.1	331.0	331.0
75°	124.8	176.0	250.9	249.6	241.7
77.5°	94.6	147.1	206.2	176.0	177.3
80°	68.3	118.2	130.0	130.0	131.4
82.5°	46.0	90.6	84.1	82.8	85.4
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)