

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: P263378

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263378
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-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2381.0 lumens
Efficiency: N/A
Efficacy: 83.1 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

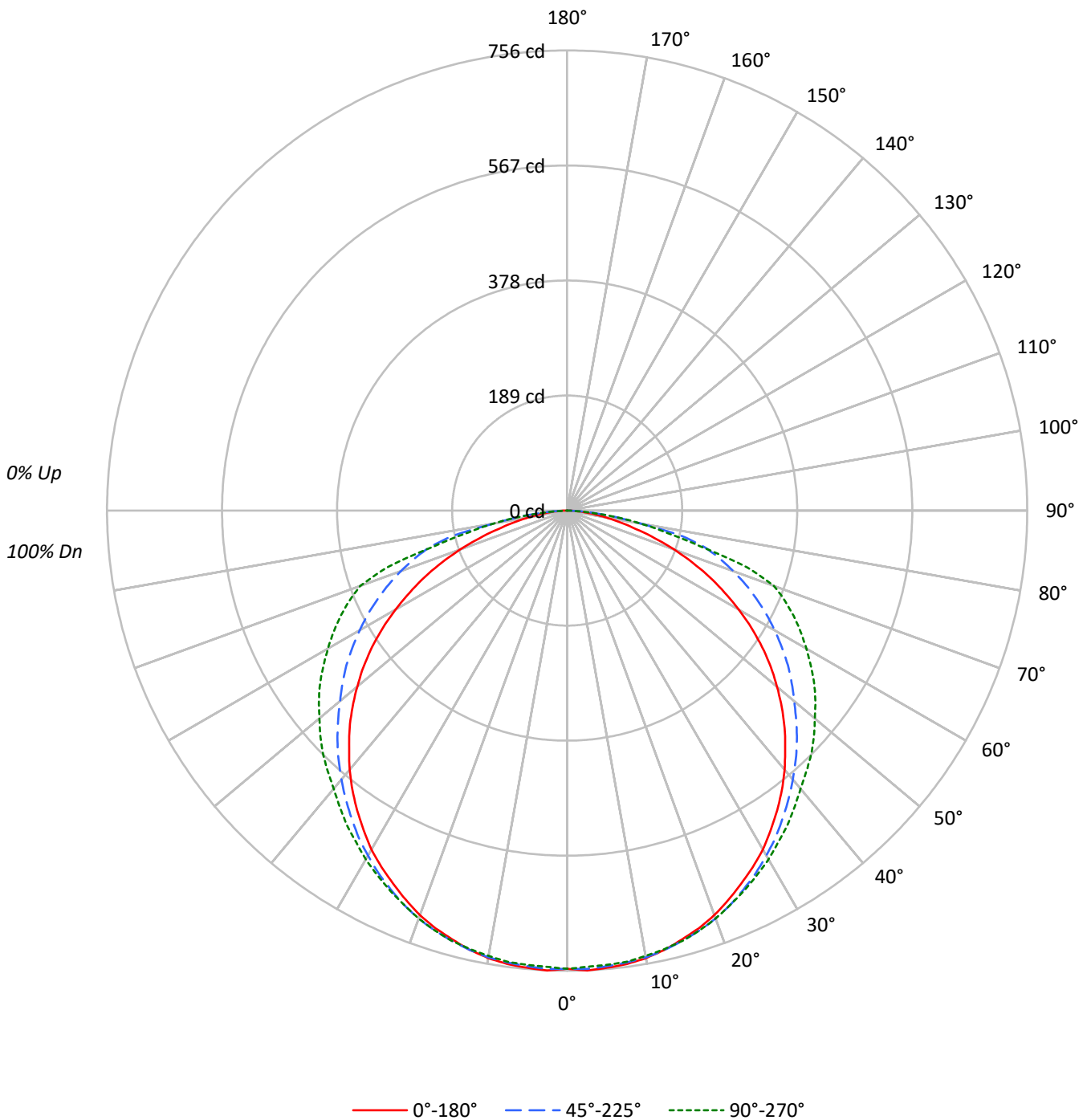
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263378

CATALOG NUMBER: 24CZ-LD5-40-SQP-UNV-L92765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P263378

CATALOG NUMBER: 24CZ-LD5-40-SQP-UNV-L92765-W2A1-U-4000K

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°	1013	1013	1013
5°	1018	1015	1012
10°	1020	1018	1015
15°	1016	1019	1019
20°	1013	1021	1021
25°	1004	1019	1022
30°	999	1017	1028
35°	988	1014	1036
40°	976	1013	1048
45°	962	1016	1079
50°	942	1019	1112
55°	917	1039	1163
60°	877	1059	1221
65°	822	1092	1308
70°	735	1142	1423
75°	607	1221	1176
80°	496	944	953
85°	398	627	588



TEST NUMBER: P263378

CATALOG NUMBER: 24CZ-LD5-40-SQP-UNV-L92765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	3.0
10°-20°	206.3	8.7
20°-30°	315.3	13.2
30°-40°	385.6	16.2
40°-50°	412.6	17.3
50°-60°	395.1	16.6
60°-70°	334.2	14.0
70°-80°	211.8	8.9
80°-90°	48.7	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°	593.0	24.9
0°-40°	978.6	41.1
0°-60°	1786.2	75.0
0°-90°	2381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2381.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	754	750	751	750	749	72
15°	729	728	732	732	732	206
25°	676	676	686	689	689	312
35°	601	605	617	626	631	376
45°	506	514	534	556	567	389
55°	391	403	443	480	496	349
65°	258	283	343	390	411	254
75°	117	165	235	234	226	127
85°	26	39	41	37	38	31
90°	0	0	0	0	0	



TEST NUMBER: P263378

CATALOG NUMBER: 24CZ-LD5-40-SQP-UNV-L92765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	752.7	752.7	752.7	752.7	752.7
2.5°	756.4	752.7	753.9	752.7	750.2
5°	753.9	750.2	751.4	750.2	749.0
7.5°	751.4	747.8	749.0	747.8	747.8
10°	746.5	742.8	745.3	744.1	742.8
12.5°	739.2	736.7	739.2	737.9	737.9
15°	729.3	728.1	731.8	731.8	731.8
17.5°	719.5	718.2	723.2	723.2	723.2
20°	707.2	705.9	713.3	713.3	713.3
22.5°	692.4	691.2	701.0	701.0	701.0
25°	676.4	676.4	686.3	688.7	688.7
27.5°	660.4	660.4	671.5	675.2	675.2
30°	643.2	643.2	654.3	659.2	661.7
32.5°	622.3	624.8	637.1	643.2	645.7
35°	601.4	605.1	617.4	626.0	630.9
37.5°	579.3	583.0	597.7	607.6	613.7
40°	555.9	560.8	576.8	589.1	596.5
42.5°	530.1	537.5	555.9	571.9	581.7
45°	505.5	514.1	533.8	555.9	567.0
47.5°	478.4	488.3	510.4	538.7	549.8
50°	450.1	460.0	487.0	519.0	531.3
52.5°	421.8	432.9	464.9	499.3	514.1
55°	391.1	403.4	442.8	479.6	495.6
57.5°	359.1	373.9	418.2	457.5	474.7
60°	325.9	344.4	393.6	435.4	453.8
62.5°	291.5	313.6	369.0	413.2	432.9
65°	258.3	282.9	343.1	389.9	410.8
67.5°	222.6	253.4	317.3	367.7	387.4
70°	186.9	222.6	290.2	341.9	361.6
72.5°	151.3	194.3	263.2	309.9	309.9
75°	116.8	164.8	234.9	233.7	226.3
77.5°	88.6	137.7	193.1	164.8	166.0
80°	64.0	110.7	121.8	121.8	123.0
82.5°	43.0	84.9	78.7	77.5	79.9
85°	25.8	39.4	40.6	36.9	38.1
87.5°	12.3	13.5	11.1	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)