

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: P263380

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263380
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-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2492.0 lumens
Efficiency: N/A
Efficacy: 86.2 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

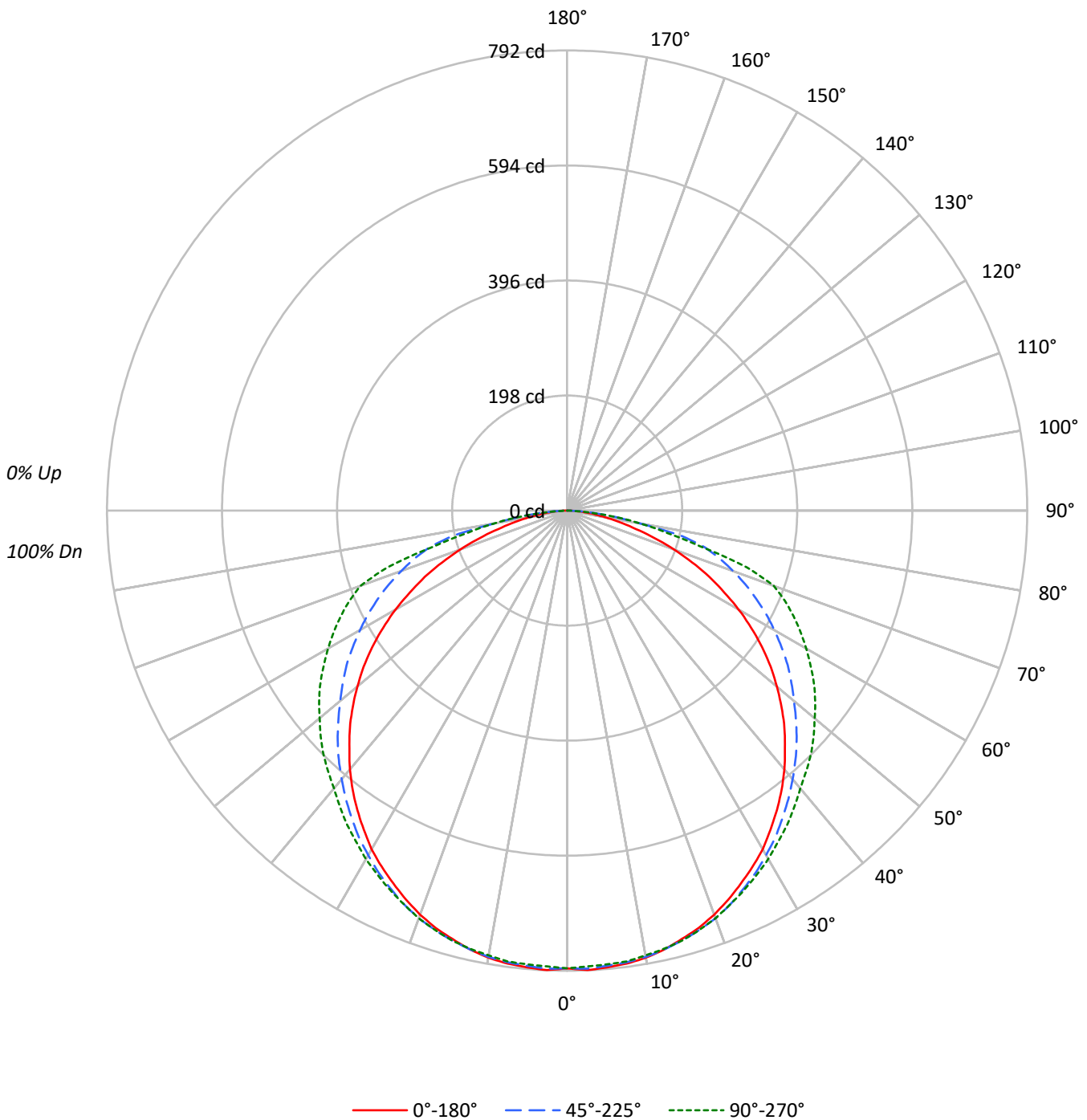
Input Watts (W): 28.923
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1060	1060	1060
5°	1066	1062	1059
10°	1067	1066	1062
15°	1063	1067	1067
20°	1060	1069	1069
25°	1051	1066	1070
30°	1046	1064	1076
35°	1034	1061	1085
40°	1022	1060	1097
45°	1007	1063	1129
50°	986	1067	1164
55°	960	1087	1217
60°	918	1108	1278
65°	861	1143	1369
70°	770	1195	1489
75°	636	1278	1231
80°	518	987	997
85°	417	656	616



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	3.0
10°-20°	215.9	8.7
20°-30°	330.0	13.2
30°-40°	403.6	16.2
40°-50°	431.8	17.3
50°-60°	413.5	16.6
60°-70°	349.8	14.0
70°-80°	221.7	8.9
80°-90°	51.0	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°	620.7	24.9
0°-40°	1024.2	41.1
0°-60°	1869.5	75.0
0°-90°	2492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2492.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	788	788	788	788	788	
5°	789	785	786	785	784	75
15°	763	762	766	766	766	216
25°	708	708	718	721	721	327
35°	629	633	646	655	660	394
45°	529	538	559	582	593	408
55°	409	422	463	502	519	365
65°	270	296	359	408	430	266
75°	122	172	246	245	237	133
85°	27	41	42	39	40	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	787.8	787.8	787.8	787.8	787.8
2.5°	791.6	787.8	789.1	787.8	785.2
5°	789.1	785.2	786.5	785.2	783.9
7.5°	786.5	782.6	783.9	782.6	782.6
10°	781.3	777.5	780.0	778.8	777.5
12.5°	773.6	771.0	773.6	772.3	772.3
15°	763.3	762.0	765.9	765.9	765.9
17.5°	753.0	751.7	756.9	756.9	756.9
20°	740.1	738.9	746.6	746.6	746.6
22.5°	724.7	723.4	733.7	733.7	733.7
25°	708.0	708.0	718.3	720.8	720.8
27.5°	691.2	691.2	702.8	706.7	706.7
30°	673.2	673.2	684.8	689.9	692.5
32.5°	651.3	653.9	666.8	673.2	675.8
35°	629.4	633.3	646.2	655.2	660.3
37.5°	606.3	610.1	625.6	635.9	642.3
40°	581.8	587.0	603.7	616.6	624.3
42.5°	554.8	562.5	581.8	598.5	608.8
45°	529.0	538.1	558.6	581.8	593.4
47.5°	500.7	511.0	534.2	563.8	575.4
50°	471.1	481.4	509.7	543.2	556.1
52.5°	441.5	453.1	486.6	522.6	538.1
55°	409.3	422.2	463.4	502.0	518.7
57.5°	375.9	391.3	437.6	478.8	496.9
60°	341.1	360.4	411.9	455.7	475.0
62.5°	305.1	328.2	386.2	432.5	453.1
65°	270.3	296.1	359.1	408.0	429.9
67.5°	233.0	265.2	332.1	384.9	405.5
70°	195.7	233.0	303.8	357.8	378.4
72.5°	158.3	203.4	275.5	324.4	324.4
75°	122.3	172.5	245.9	244.6	236.8
77.5°	92.7	144.2	202.1	172.5	173.8
80°	66.9	115.8	127.4	127.4	128.7
82.5°	45.1	88.8	82.4	81.1	83.7
85°	27.0	41.2	42.5	38.6	39.9
87.5°	12.9	14.2	11.6	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)