

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: P263246

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263246
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-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2804.0 lumens
Efficiency: N/A
Efficacy: 96.3 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

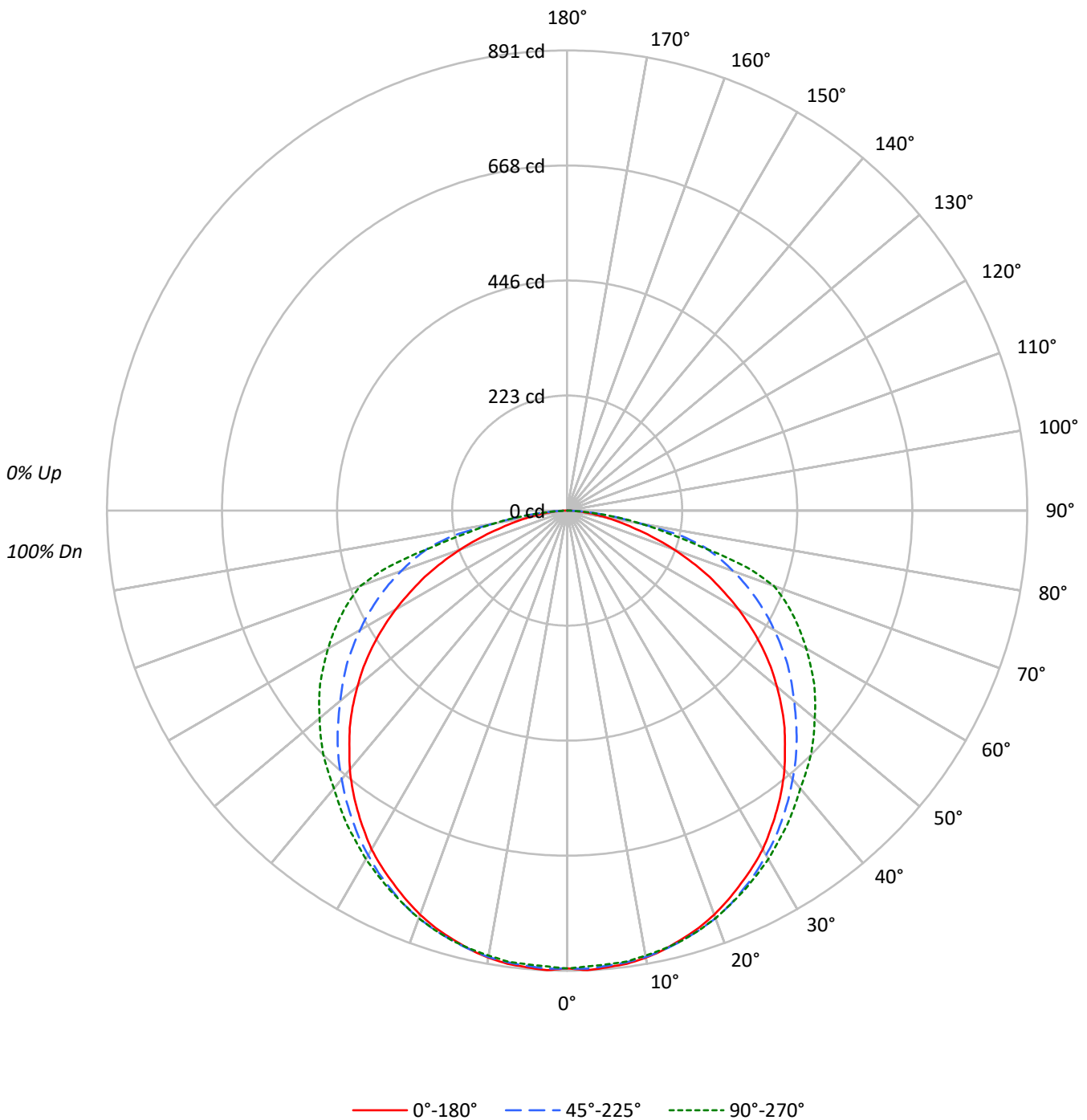
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1193	1193	1193
5°	1199	1195	1191
10°	1201	1199	1195
15°	1196	1200	1200
20°	1192	1203	1203
25°	1183	1200	1204
30°	1177	1197	1211
35°	1163	1194	1220
40°	1150	1193	1234
45°	1133	1196	1271
50°	1110	1201	1310
55°	1080	1223	1369
60°	1033	1247	1438
65°	968	1287	1540
70°	866	1345	1675
75°	715	1438	1385
80°	583	1111	1122
85°	469	738	693



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	3.0
10°-20°	242.9	8.7
20°-30°	371.3	13.2
30°-40°	454.1	16.2
40°-50°	485.9	17.3
50°-60°	465.2	16.6
60°-70°	393.6	14.0
70°-80°	249.5	8.9
80°-90°	57.4	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°	698.4	24.9
0°-40°	1152.5	41.1
0°-60°	2103.6	75.0
0°-90°	2804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2804.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	886	886	886	886	886	
5°	888	884	885	884	882	84
15°	859	857	862	862	862	243
25°	797	797	808	811	811	368
35°	708	713	727	737	743	443
45°	595	605	629	655	668	459
55°	461	475	521	565	584	411
65°	304	333	404	459	484	300
75°	138	194	277	275	266	150
85°	30	46	48	44	45	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	886.4	886.4	886.4	886.4	886.4
2.5°	890.7	886.4	887.8	886.4	883.5
5°	887.8	883.5	884.9	883.5	882.1
7.5°	884.9	880.6	882.1	880.6	880.6
10°	879.2	874.8	877.7	876.3	874.8
12.5°	870.5	867.6	870.5	869.0	869.0
15°	858.9	857.4	861.8	861.8	861.8
17.5°	847.3	845.8	851.6	851.6	851.6
20°	832.8	831.4	840.0	840.0	840.0
22.5°	815.4	814.0	825.6	825.6	825.6
25°	796.6	796.6	808.2	811.1	811.1
27.5°	777.8	777.8	790.8	795.2	795.2
30°	757.5	757.5	770.5	776.3	779.2
32.5°	732.9	735.8	750.3	757.5	760.4
35°	708.2	712.6	727.1	737.2	743.0
37.5°	682.2	686.5	703.9	715.5	722.7
40°	654.7	660.5	679.3	693.8	702.5
42.5°	624.2	632.9	654.7	673.5	685.1
45°	595.3	605.4	628.6	654.7	667.7
47.5°	563.4	575.0	601.1	634.4	647.4
50°	530.1	541.7	573.6	611.2	625.7
52.5°	496.8	509.8	547.5	588.0	605.4
55°	460.6	475.1	521.4	564.9	583.7
57.5°	422.9	440.3	492.4	538.8	559.1
60°	383.8	405.5	463.5	512.7	534.4
62.5°	343.3	369.3	434.5	486.6	509.8
65°	304.2	333.1	404.1	459.1	483.8
67.5°	262.2	298.4	373.7	433.1	456.2
70°	220.2	262.2	341.8	402.6	425.8
72.5°	178.1	228.8	309.9	365.0	365.0
75°	137.6	194.1	276.6	275.2	266.5
77.5°	104.3	162.2	227.4	194.1	195.5
80°	75.3	130.4	143.4	143.4	144.8
82.5°	50.7	99.9	92.7	91.2	94.1
85°	30.4	46.3	47.8	43.5	44.9
87.5°	14.5	15.9	13.0	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)