

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: P263338

Luminaire Tested: **24CZ-LD5-40SE-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263338
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-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2801.0 lumens
Efficiency: N/A
Efficacy: 88.1 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

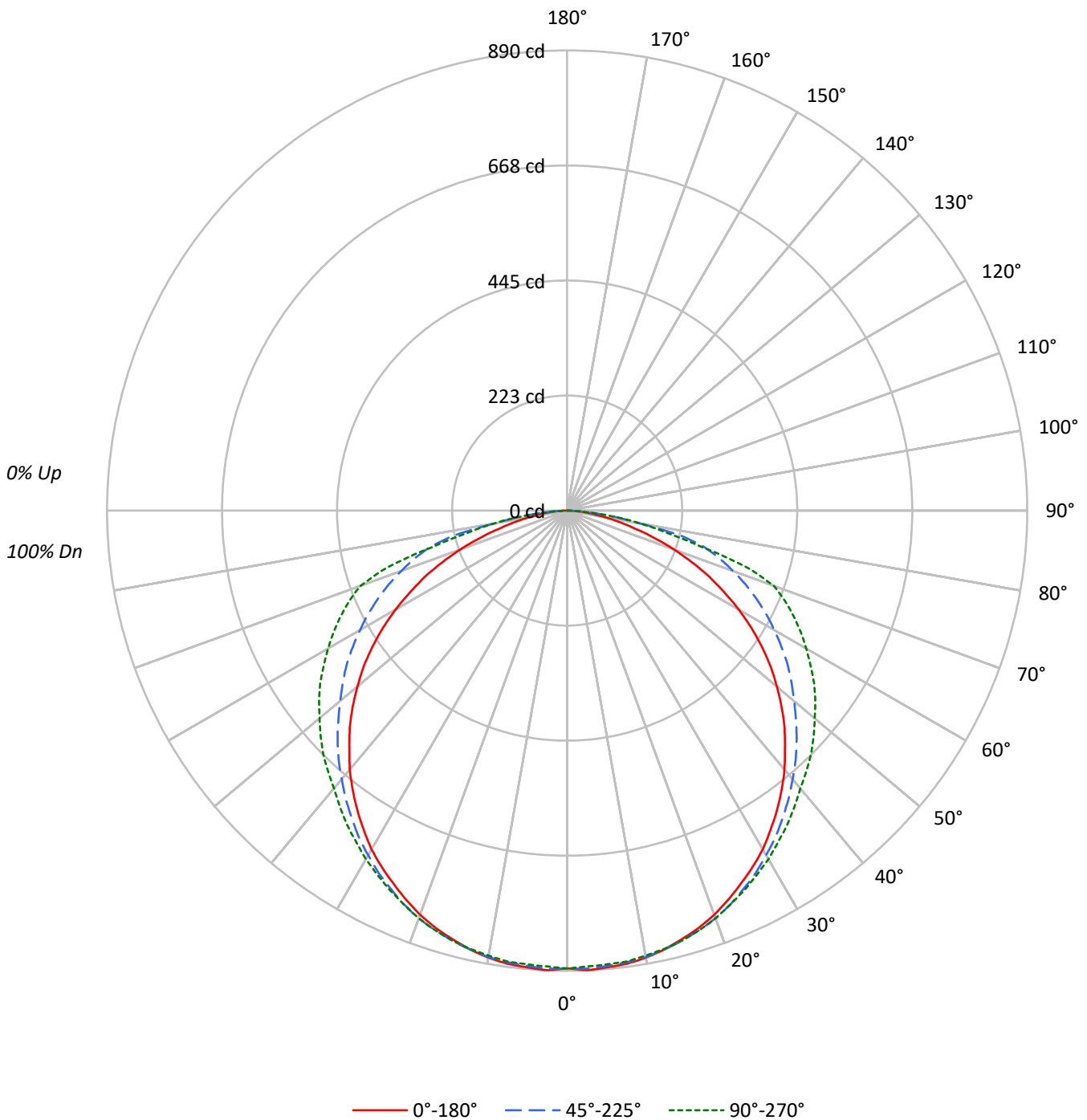
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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°	1191	1191	1191
5°	1198	1194	1190
10°	1200	1198	1194
15°	1195	1199	1199
20°	1191	1202	1202
25°	1181	1199	1203
30°	1176	1196	1209
35°	1162	1193	1219
40°	1149	1192	1232
45°	1131	1195	1269
50°	1108	1199	1308
55°	1079	1222	1368
60°	1032	1246	1437
65°	967	1285	1538
70°	865	1343	1674
75°	714	1436	1384
80°	583	1110	1121
85°	469	736	693



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	3.0
10°-20°	242.7	8.7
20°-30°	370.9	13.2
30°-40°	453.6	16.2
40°-50°	485.3	17.3
50°-60°	464.8	16.6
60°-70°	393.1	14.0
70°-80°	249.2	8.9
80°-90°	57.3	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°	697.6	24.9
0°-40°	1151.2	41.1
0°-60°	2101.3	75.0
0°-90°	2801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	885	885	885	885	885	
5°	887	883	884	883	881	84
15°	858	856	861	861	861	242
25°	796	796	807	810	810	367
35°	708	712	726	736	742	443
45°	595	605	628	654	667	458
55°	460	475	521	564	583	410
65°	304	333	404	459	483	299
75°	137	194	276	275	266	149
85°	30	46	48	43	45	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	885.4	885.4	885.4	885.4	885.4
2.5°	889.8	885.4	886.9	885.4	882.6
5°	886.9	882.6	884.0	882.6	881.1
7.5°	884.0	879.7	881.1	879.7	879.7
10°	878.2	873.9	876.8	875.3	873.9
12.5°	869.5	866.6	869.5	868.1	868.1
15°	858.0	856.5	860.9	860.9	860.9
17.5°	846.4	844.9	850.7	850.7	850.7
20°	831.9	830.5	839.2	839.2	839.2
22.5°	814.6	813.1	824.7	824.7	824.7
25°	795.7	795.7	807.3	810.2	810.2
27.5°	776.9	776.9	790.0	794.3	794.3
30°	756.7	756.7	769.7	775.5	778.4
32.5°	732.1	735.0	749.4	756.7	759.6
35°	707.5	711.8	726.3	736.4	742.2
37.5°	681.4	685.8	703.2	714.7	722.0
40°	654.0	659.7	678.6	693.0	701.7
42.5°	623.6	632.3	654.0	672.8	684.3
45°	594.6	604.8	627.9	654.0	667.0
47.5°	562.8	574.4	600.4	633.7	646.7
50°	529.5	541.1	572.9	610.6	625.0
52.5°	496.3	509.3	546.9	587.4	604.8
55°	460.1	474.6	520.9	564.3	583.1
57.5°	422.5	439.8	491.9	538.2	558.5
60°	383.4	405.1	463.0	512.2	533.9
62.5°	342.9	368.9	434.0	486.1	509.3
65°	303.8	332.8	403.7	458.6	483.2
67.5°	261.9	298.0	373.3	432.6	455.7
70°	219.9	261.9	341.4	402.2	425.4
72.5°	178.0	228.6	309.6	364.6	364.6
75°	137.4	193.9	276.3	274.9	266.2
77.5°	104.2	162.0	227.1	193.9	195.3
80°	75.2	130.2	143.2	143.2	144.7
82.5°	50.6	99.8	92.6	91.1	94.0
85°	30.4	46.3	47.7	43.4	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)