

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: P263333

Luminaire Tested: **24CZ-LD5-40SE-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263333
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-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2675.0 lumens
Efficiency: N/A
Efficacy: 86.9 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

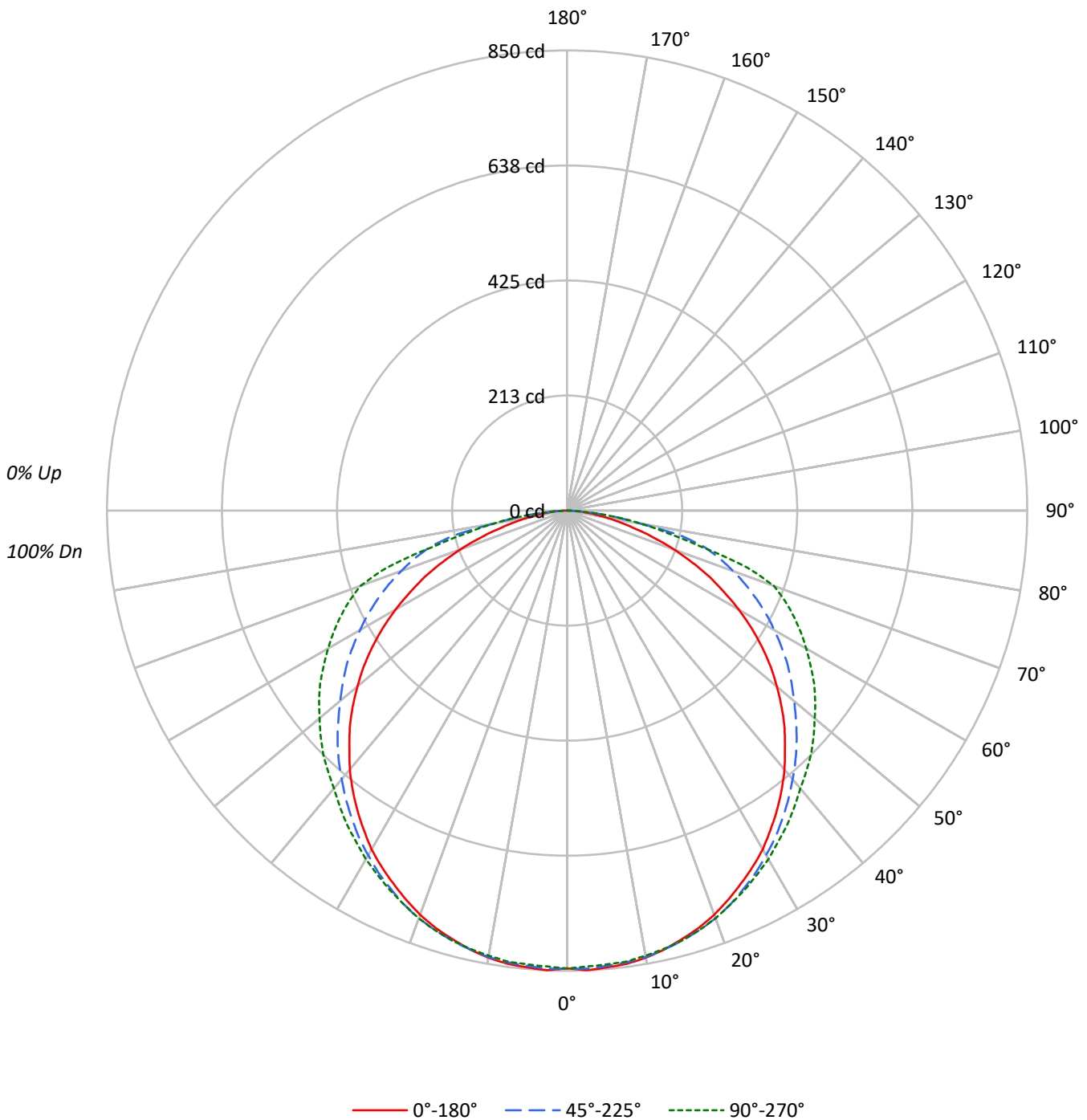
Input Watts (W): 30.783
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1138	1138	1138
5°	1144	1140	1137
10°	1146	1144	1140
15°	1141	1145	1145
20°	1138	1147	1147
25°	1128	1145	1149
30°	1123	1142	1155
35°	1110	1139	1164
40°	1097	1138	1177
45°	1081	1141	1212
50°	1059	1145	1249
55°	1031	1167	1306
60°	985	1190	1372
65°	924	1227	1469
70°	826	1283	1598
75°	683	1372	1321
80°	556	1060	1071
85°	448	704	661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	3.0
10°-20°	231.7	8.7
20°-30°	354.2	13.2
30°-40°	433.2	16.2
40°-50°	463.5	17.3
50°-60°	443.8	16.6
60°-70°	375.5	14.0
70°-80°	238.0	8.9
80°-90°	54.7	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°	666.3	24.9
0°-40°	1099.4	41.1
0°-60°	2006.8	75.0
0°-90°	2675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	847	843	844	843	842	81
15°	819	818	822	822	822	231
25°	760	760	771	774	774	351
35°	676	680	694	703	709	423
45°	568	578	600	624	637	437
55°	439	453	497	539	557	392
65°	290	318	386	438	462	286
75°	131	185	264	262	254	143
85°	29	44	46	42	43	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	845.6	845.6	845.6	845.6	845.6
2.5°	849.8	845.6	847.0	845.6	842.9
5°	847.0	842.9	844.2	842.9	841.5
7.5°	844.2	840.1	841.5	840.1	840.1
10°	838.7	834.6	837.3	835.9	834.6
12.5°	830.4	827.7	830.4	829.0	829.0
15°	819.4	818.0	822.1	822.1	822.1
17.5°	808.3	806.9	812.5	812.5	812.5
20°	794.5	793.1	801.4	801.4	801.4
22.5°	777.9	776.5	787.6	787.6	787.6
25°	760.0	760.0	771.0	773.8	773.8
27.5°	742.0	742.0	754.4	758.6	758.6
30°	722.6	722.6	735.1	740.6	743.4
32.5°	699.2	701.9	715.7	722.6	725.4
35°	675.7	679.8	693.6	703.3	708.8
37.5°	650.8	654.9	671.5	682.6	689.5
40°	624.5	630.1	648.0	661.8	670.1
42.5°	595.5	603.8	624.5	642.5	653.6
45°	567.9	577.6	599.7	624.5	637.0
47.5°	537.5	548.5	573.4	605.2	617.6
50°	505.7	516.8	547.2	583.1	596.9
52.5°	473.9	486.4	522.3	561.0	577.6
55°	439.4	453.2	497.4	538.9	556.8
57.5°	403.5	420.0	469.8	514.0	533.3
60°	366.2	386.9	442.2	489.1	509.9
62.5°	327.5	352.3	414.5	464.3	486.4
65°	290.2	317.8	385.5	438.0	461.5
67.5°	250.1	284.6	356.5	413.1	435.2
70°	210.0	250.1	326.1	384.1	406.2
72.5°	170.0	218.3	295.7	348.2	348.2
75°	131.3	185.2	263.9	262.5	254.2
77.5°	99.5	154.8	216.9	185.2	186.5
80°	71.8	124.4	136.8	136.8	138.2
82.5°	48.4	95.3	88.4	87.0	89.8
85°	29.0	44.2	45.6	41.5	42.8
87.5°	13.8	15.2	12.4	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)